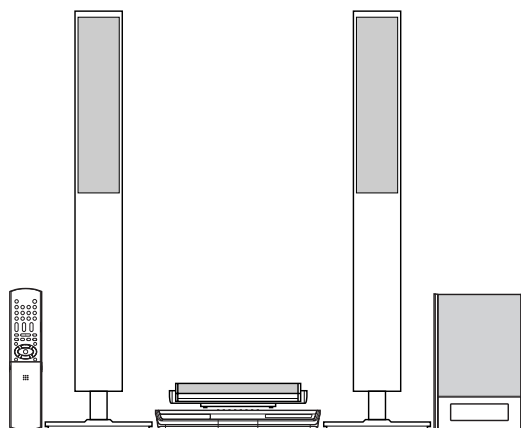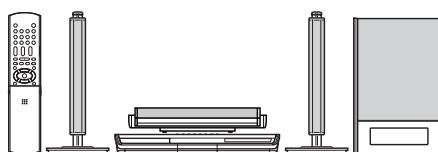# JVC

NETWORK MEDIA SYSTEM

DD-8

Consists of CA-DD8, SP-PWDD8, SP-DD8F and SP-DD8S
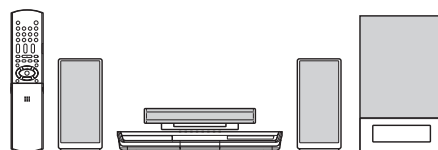
DD-3

Consists of CA-DD3, SP-PWDD3, SP-DD3F and SP-DD8S

DIGITAL MEDIA SYSTEM

DD-1

Consists of CA-DD1, SP-PWDD1, SP-DD1F and SP-DD1S

Digital Direct Progressive Scan

DVD VIDEO™   DivX®   HOME THEATER DivX® CERTIFIED VIDEO™   HDMI (Only for DD-8 and DD-3)   MPEG-4 ASF PLAYBACK   COMPACT disc SUPER VIDEO   DOLBY DIGITAL PRO LOGIC II   DIGITAL dts SURROUND

INSTRUCTIONS

Warnings, cautions and others

CAUTION

To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION

• Do not block the ventilation openings or holes.
  (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
• Do not place any naked flame sources, such as lighted candles, on the apparatus.
• When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
• Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
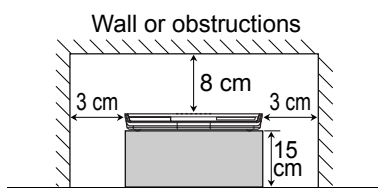4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

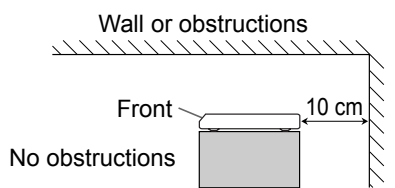| CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学装置で直接見ないでください。(JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44603-003A

CAUTION: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage, place the apparatus on a level surface. The minimal clearances are shown below:

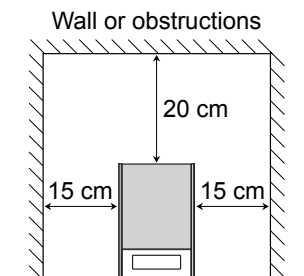**Main unit (CA-DD8/CA-DD3/CA-DD1)**

Front view

Wall or obstructions

8 cm
3 cm   3 cm
15 cm

Side view

Wall or obstructions

Front   10 cm

No obstructions

Subwoofer (SP-PWDD8/SP-PWDD3/SP-PWDD1)

Front view

Wall or obstructions

20 cm
15 cm   15 cm

Side view

Wall or obstructions

Front   15 cm

No obstructions
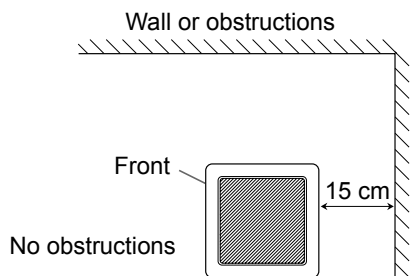
CAUTION — ⏻/I button! (CA-DD8/CA-DD3/CA-DD1)

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). When installing the apparatus, ensure that the plug is easily accessible.

The ⏻/I button in any position does not disconnect the mains line.

• When the system is on standby, the STANDBY lamp lights red.
• When the system is turned on, the STANDBY lamp goes off.
  The power can be remote controlled.

CAUTION (SP-PWDD8/SP-PWDD3/SP-PWDD1)

The power supply to the subwoofer is linked to the center unit.

Disconnect the mains plug to shut the power off completely (the POWER ON lamp goes off).

When installing the apparatus, ensure that the plug is easily accessible.

• When the system is turned on, the POWER ON lamp lights green.

CAUTION

To avoid personal injury or accidentally dropping the unit, have two persons unpack, carry, and install the unit.

DD-8: 48.5 kg
DD-3: 22.7 kg

[European Union only]

Table of contents

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

Playing back sources from other devices

Operating other devices using the remote control

Reference

How to read this manual
- This manual explains operations assuming that you will use the remote control. Some buttons on the main unit are the same as those on the remote control. You can use either button in this case.
- This manual explains operations mainly with diagrams of the remote control supplied with DD-8/DD-3. If you are operating DD-1, please keep in mind the differences between your remote control shown on page 4.
- Some diagrams in this manual are simplified or exaggerated for the purpose of explanation.
- You can operate some functions differently from the explanation given in this manual.
- Depending on the disc/file, you may not obtain the explained result even after following the operation in this manual.
- The following marks refer to the usable discs/files for the explained function.

DVD VIDEO VCD SVCD C D MP3 WMA WAV JPEG
ASF DivX MPEG1 MPEG2

Part description

The numbers refer to the pages in which the parts are explained.

Front view

STANDBY lamp   Refer to "Display window" shown below.

Remote control sensor

These terminals are available when the front cover is open.
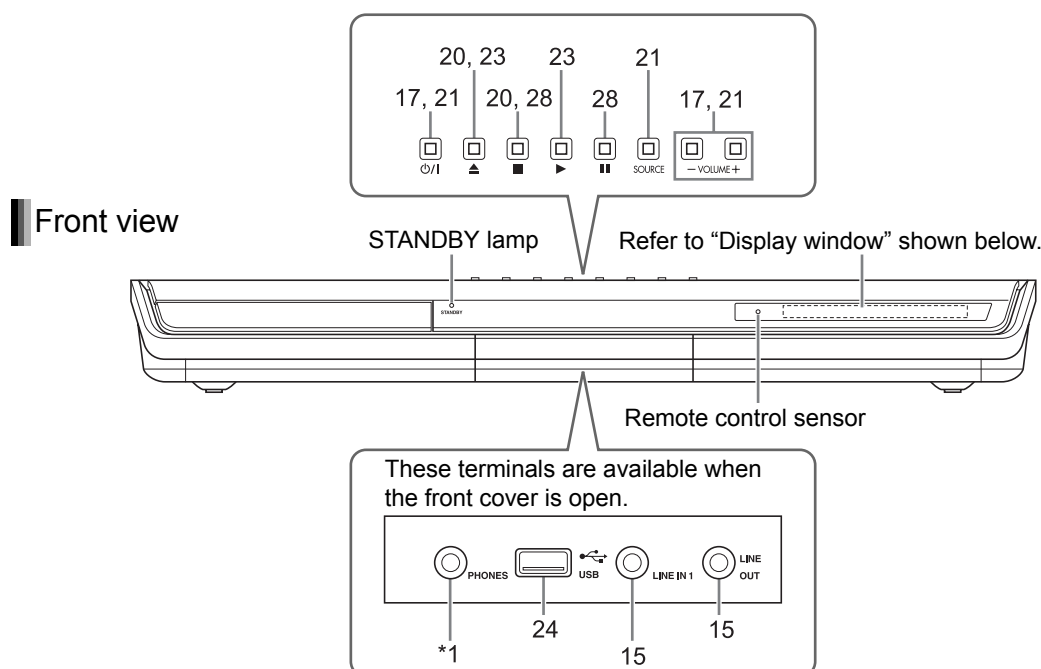
*1 The [PHONES] terminal is for connecting a pair of headphones equipped with a stereo plug (not supplied). When the headphones are connected, the speakers do not produce any sound. ("HEADPHONE" appears in the display window.)
During playback, when you connect or disconnect headphones, sound from the [LINE OUT] and [LINE-DIGITAL OUT] terminals may be intermittent. While recording sound to another device, do not connect or disconnect headphones.

Rear view
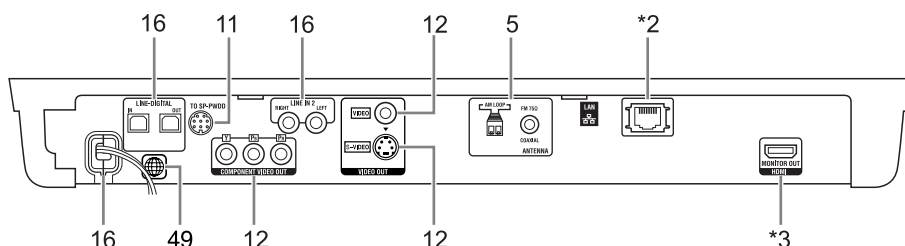
*2 For DD-8/DD-3 users: Refer to the separate volume of the operation manual for the network function.
For DD-1 users: The [LAN] terminal is not available.
*3 For DD-8/DD-3 users: Refer to page 12.
For DD-1 users: The [HDMI] terminal is not available.

Display window

3
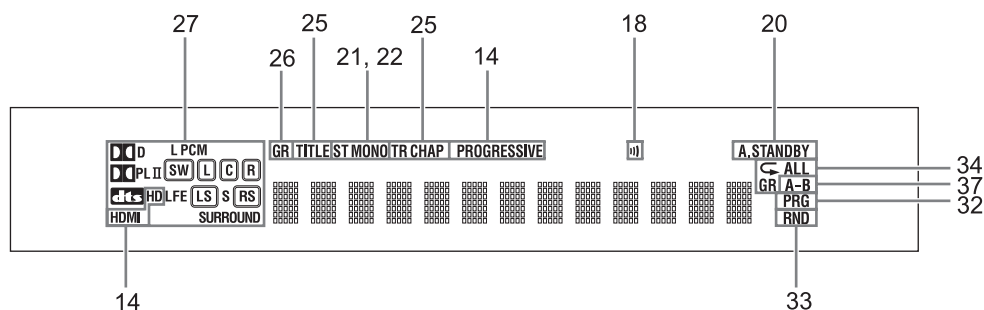
Using the remote control

The numbers refer to the pages in which the parts are explained.
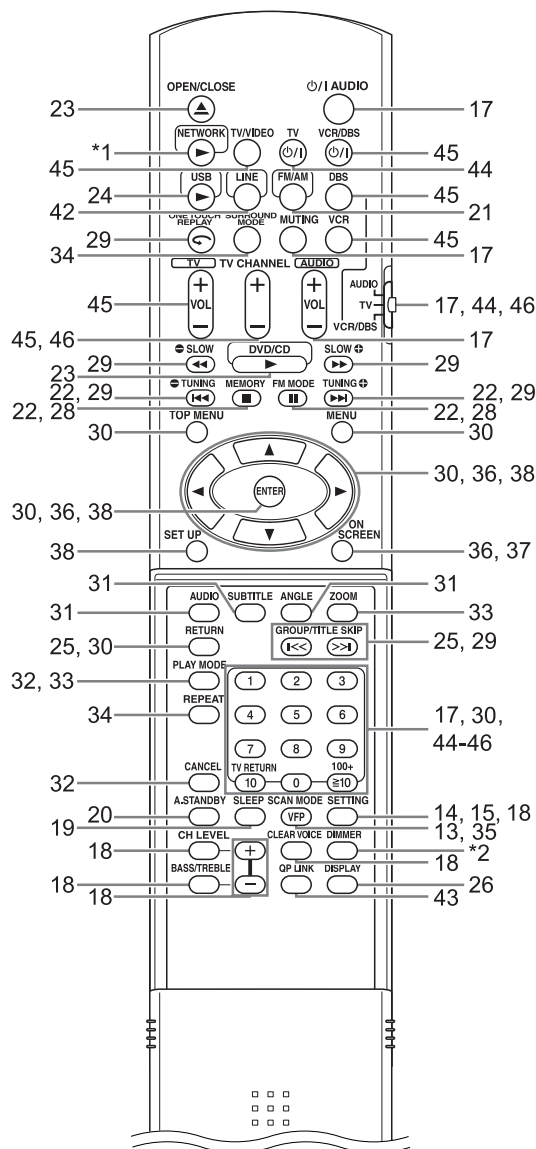
There are some differences between DD-8/DD-3 and DD-1 in the locations of the remote control buttons as shown below.

	DD-8/DD-3	DD-1
*1	NETWORK ► Refer to the separate volume of the operation manual for the network function.	DIMMER Refer to page 19.
*2	DIMMER Refer to page 19.	No button

Inserting the batteries into the remote control
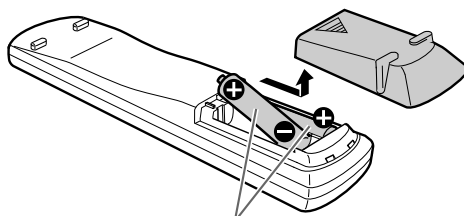
R6P (SUM-3)/AA (15F) type dry-cell batteries (supplied)

• If the effective range of the remote control decreases, replace both batteries.

■ CAUTION
• Do not expose batteries to heat or flame.

Operating the system from the remote control

Point the remote control directly at the front of the main unit.
• Do not block the remote control sensor on the main unit.
• Use the remote control at a position higher than the main unit.

4

Do not turn on the power until you complete the connection.

Connecting the antennas

AM loop antenna (supplied)

Setting up the AM loop antenna
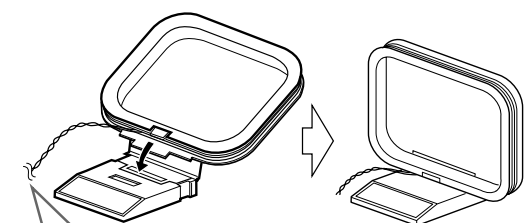
If insulation covers the tips of the antenna cable, twist and pull off the insulation.

Connecting the AM loop antenna

Main unit (rear view)
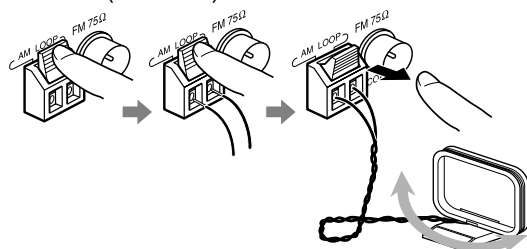
Turn the AM loop antenna to find the best position for radio reception.

NOTE
• Make sure that the antenna conductors do not touch any other terminals. This could cause poor reception.

FM antenna (supplied)

Main unit (rear view)   FM antenna
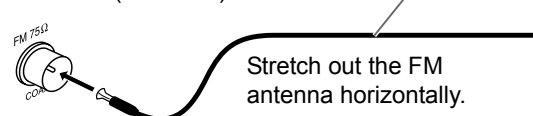
Stretch out the FM antenna horizontally.

If reception is poor

Main unit (rear view)

75 Ω coaxial connector (not supplied)

Outdoor FM antenna cable (not supplied)
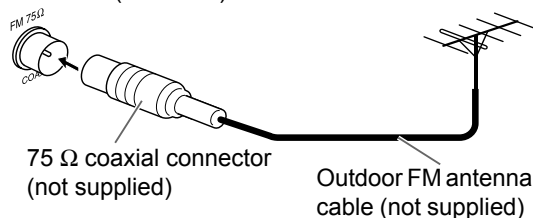
NOTE
• A coaxial cable is recommended as it reduces interference for FM reception.

5

Connecting the speakers

Assembling the speaker stands (DD-8)

The speakers for DD-8 must be assembled to the speaker stands before the speakers can be connected to the subwoofer. Follow the diagrams below.

Left and right speakers

■ CAUTION

- The left and right speakers for DD-8 are considerably heavy. Care must be taken in carrying and handling them. Injury to personnel or damage to devices may result if the left/right speaker falls.

Speaker body
Speaker stand
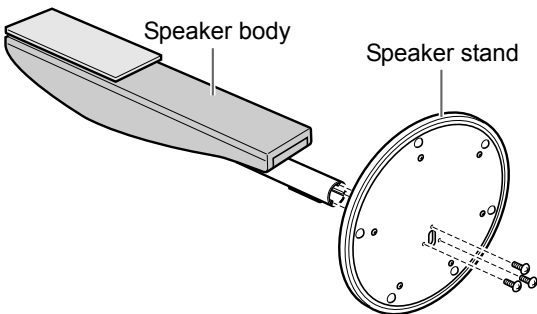
Mount the speaker body perpendicular to the speaker stand. Use the supplied M4 x 25-mm screws (3) to fasten each speaker to its speaker stand.

Red

Black

Black line

FRONT LEFT
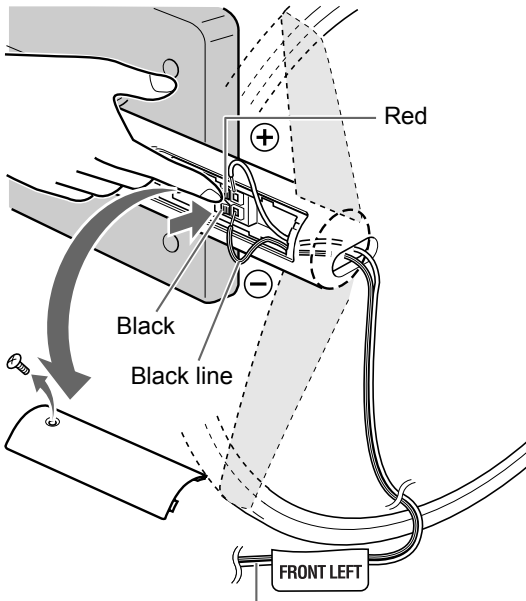
Left/right speaker cable (supplied)

Remove the screw and the terminal cover. After connecting the speaker cables, reattach the terminal cover to the speaker body and tighten the screw.

Center surround speaker

Use the supplied M5 x 14-mm screws (2) to fasten the speaker stand.
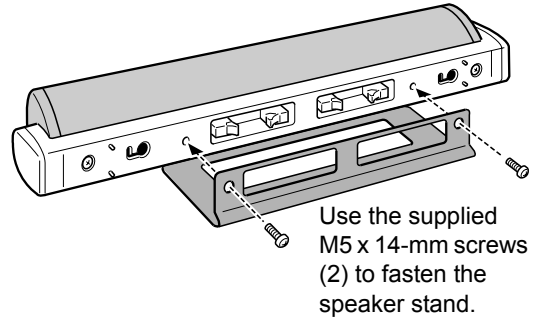
■ CAUTION

- The center surround speaker for DD-8 can be installed on a wall.
- Be sure to have the speaker installed on the wall by qualified personnel.
- DO NOT install the speaker on the wall by yourself to avoid unexpected damage from it falling off the wall due to incorrect installation or weakness in wall structure.
- Care must be taken in selecting a location for speaker installation on a wall. Injury to personnel or damage to devices may result if the installed speaker interferes with daily activities.

6

Connecting the speakers to the subwoofer (DD-8)

Before connecting the speaker cables, twist and pull off the insulation at the end of each speaker cable.

Subwoofer (SP-PWDD8)

Gray   Blue

Rear view

FRONT SPEAKERS   CENTER SURROUND SPEAKERS
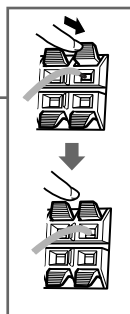
RIGHT   LEFT   RIGHT   LEFT

Black   Black

Black lines

FRONT RIGHT

FRONT LEFT

SURROUND RIGHT

SURROUND LEFT

Center surround speaker cable (supplied)

Gray   Black

Black   Blue

Right   Left

Rear view

Center surround speaker (SP-DD8S)

The speaker is shown assembled to the speaker stand on page 6.

Right speaker (SP-DD8F)   Left speaker (SP-DD8F)

The speakers are shown assembled to the speaker stands on page 6.
The left and right speakers are the same.

NOTE

• When connecting the speaker cable to the terminal on the center surround speaker, make sure that the end of speaker cable does not touch any other nearby metallic parts.

7

Assembling the speaker stands (DD-3)

The speakers for DD-3 must be assembled to the speaker stands before the speakers can be connected to the subwoofer. Follow the diagrams below.

Left and right speakers

Black line

Use the supplied M4 x 16-mm screws (3) to fasten each speaker to its speaker stand.

Left/right speaker cable (supplied)

FRONT LEFT

Center surround speaker

Use the supplied M5 x 14-mm screws (2) to fasten the speaker stand.
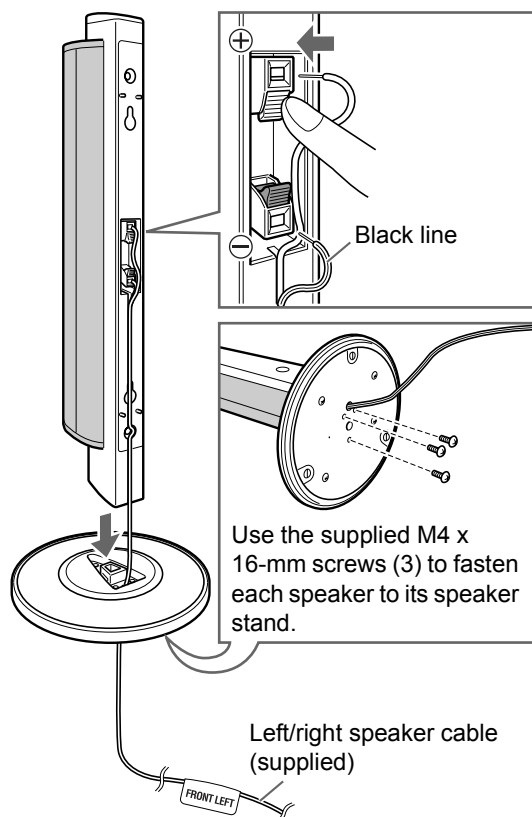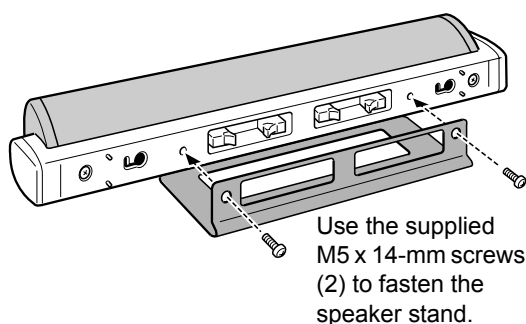
■ CAUTION
- The left and right speakers and center surround speaker for DD-3 can be installed on a wall.
- Be sure to have the speakers installed on the wall by qualified personnel. Bottom covers (2) are supplied with DD-3 for installing the left and right speakers on the wall.

Affixing the bottom covers to the left and right speakers

Left/right speaker (bottom view)

Bottom cover (for wall installation)
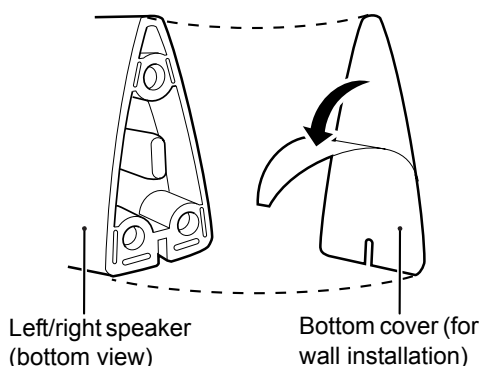
Peel off the sheet from the bottom cover, and then affix the bottom cover to the left/right speaker.

- DO NOT install the speakers on the wall by yourself to avoid unexpected damage from them falling off the wall due to incorrect installation or weakness in wall structure.
- Care must be taken in selecting a location for speaker installation on a wall. Injury to personnel or damage to devices may result if the installed speakers interfere with daily activities.

8

Connecting the speakers to the subwoofer (DD-3)

Before connecting the speaker cables, twist and pull off the insulation at the end of each speaker cable.

Subwoofer
(SP-PWDD3)

Rear view

Gray   Blue

FRONT SPEAKERS   CENTER SURROUND
                  SPEAKERS
RIGHT   LEFT   RIGHT   LEFT

Black   Black

Black lines

FRONT RIGHT

FRONT LEFT

SURROUND RIGHT

SURROUND LEFT

Center surround
speaker cable (supplied)

Gray   Black

Black   Blue

Right   Left

Rear view

Center surround speaker (SP-DD8S)

Right speaker
(SP-DD3F)

Left speaker
(SP-DD3F)

The speakers are shown assembled to the speaker stands on page 8.
The left and right speakers are the same.

The speaker is shown assembled to the speaker stand on page 8.

NOTE
• When connecting the speaker cable to the terminal on the center surround speaker, make sure that the end of speaker cable does not touch any other nearby metallic parts.

9

Connecting the speakers to the subwoofer (DD-1)

Gray

Blue

Rear view

Before connecting the speaker cables, twist and pull off the insulation at the end of each speaker cable.

FRONT SPEAKERS

CENTER SURROUND SPEAKERS

RIGHT LEFT RIGHT LEFT

Subwoofer (SP-PWDD1)

Black Black

Black lines

FRONT RIGHT

FRONT LEFT

SURROUND RIGHT

SURROUND LEFT

Rear view

Rear view

⊖ ⊕

⊖ ⊕

Center surround speaker (SP-DD1S)

Right speaker (SP-DD1F)

Left speaker (SP-DD1F)

The left and right speakers are the same.

10

Preparation

Connecting the subwoofer to the main unit

Only for DD-8 and DD-3

Peel off the protective sheets from both sides of the subwoofer.

Subwoofer

Main unit

Rear view

Rear view

CONNECTOR
FROM CA-DD

TO SP-PWDD

System cable (supplied)
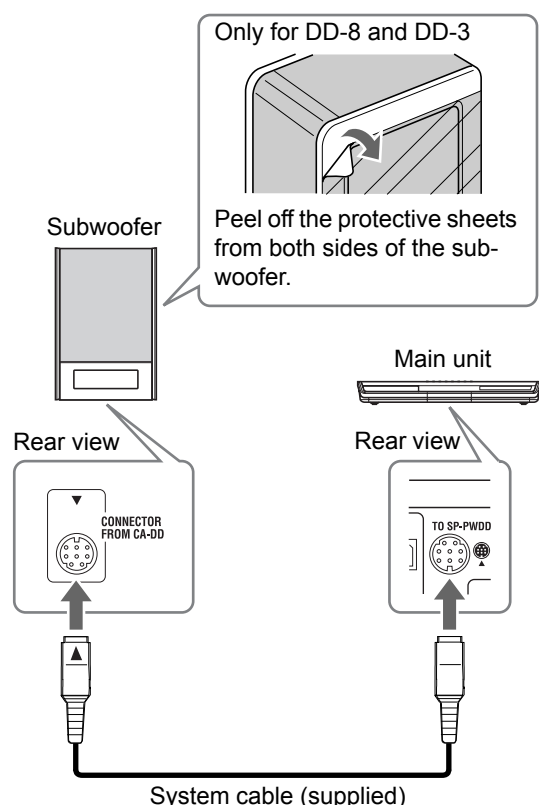
Align the ▲ marks on the terminals and the system cable.

■Selecting the voltage for your area

Before connecting the power cable of the subwoofer to an AC outlet, you must set the correct voltage for your area.

Slide the voltage selector on the subwoofer to the correct voltage for your area.

• Confirm that the position of the voltage selector is compatible with the voltage in your area.

Subwoofer (rear view)
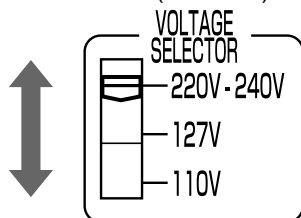
VOLTAGE
SELECTOR

220V - 240V

127V

110V

■ CAUTION

• Do not connect the power cable of the subwoofer to an AC outlet before setting the voltage selector on the subwoofer and completing all connections.

Speaker layout

Center surround speaker

Left speaker   Right speaker

Subwoofer
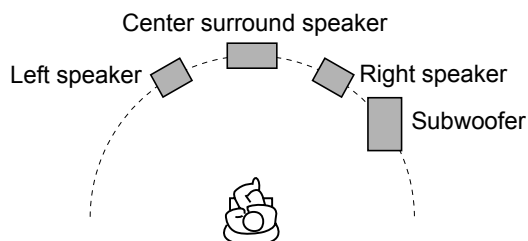
■ CAUTION

• An incorrect connection may damage the speakers. Properly connect the cables to the speaker terminals.
• Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the main unit.
• The supplied speakers are manufactured exclusively for use with the supplied main unit as parts of the DD-8/DD-3/DD-1 system. Do not connect the supplied speakers to devices other than the supplied main unit. Doing so may damage the speakers.
• Do not connect other speakers together with the supplied speakers. The change in impedance may damage the main unit and the speakers.
• Improper speaker cable connection spoils the stereo effect and sound quality.
• Most of the supplied speakers* are magnetically shielded, but color irregularity may occur on the TV depending on some conditions. To prevent color irregularity, set up the speakers following the instructions below.
  1. Turn off the main power of the TV before setting up the speakers.
  2. Place the speakers enough distance from the TV so that they do not cause color irregularity on the TV.
  3. Wait for approximately 30 minutes before turning on the main power of the TV again.
  * The subwoofers for DD-3 and DD-1 are not magnetically shielded. With the exception of these 2 subwoofers, the supplied speakers are magnetically shielded.

11

Connecting a TV

Connecting a TV with the [VIDEO] terminal

TV | Main unit (rear view)

↑ To a video terminal

Composite video cable (supplied)
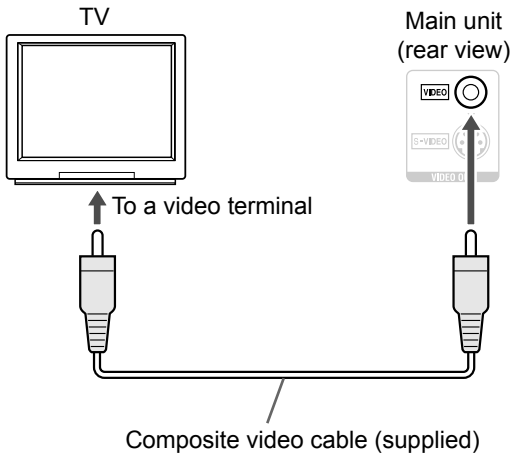
Connecting a TV with the [S-VIDEO] terminal

TV | Main unit (rear view)

↑ To an S-video terminal

S-video cable (not supplied)
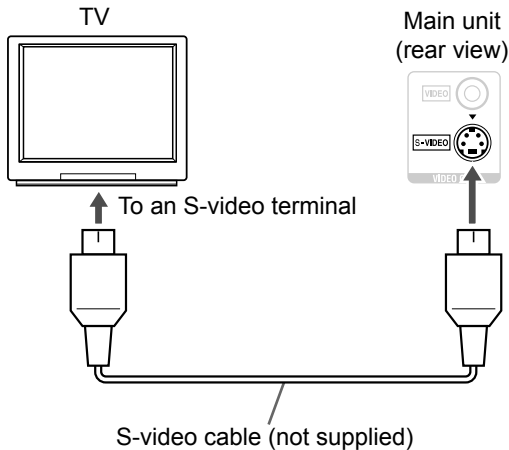
Connecting a TV with the [COMPONENT VIDEO OUT] terminals

TV

Main unit (rear view)

To component terminals

Component video cable (not supplied)
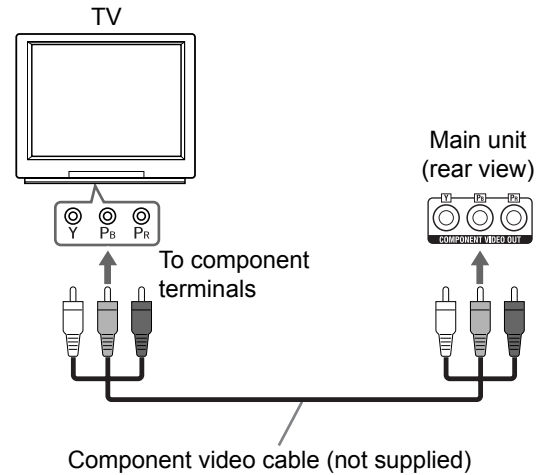
Connecting a TV with the [HDMI] terminal (not available for DD-1)

DD-8 and DD-3 can output uncompressed digital video signals to a TV compatible with HDMI (High Definition Multimedia Interface).

TV | Main unit (rear view)

↑ To an HDMI terminal

HDMI cable (not supplied)
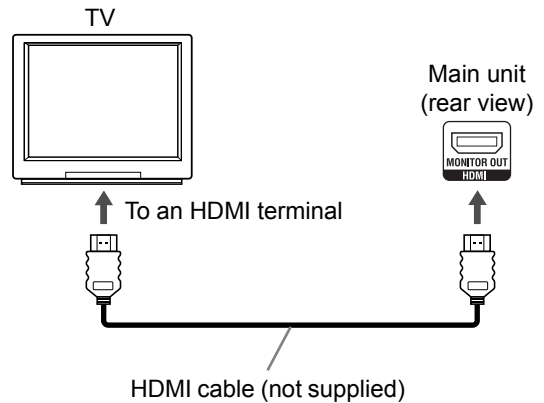
Select "HDMI" for the monitor out type. (Refer to page 14.)

12

Preparation

NOTE
- DD-8 and DD-3 support up to HDMI version 1.0. The HDMI video signal type can be checked with the "HDMI" indicator in the display window. (Refer to "Selecting the video signal type" shown on the right.)
- If the picture is distorted while an HDMI TV is connected, turn off the main unit and turn it on again.
- A TV compatible with HDCP (High-Bandwidth Digital Content Protection) can also be connected to the [HDMI] terminal, so that the uncompressed HD video signal type can be output as well.

■ **CAUTION**
- Do not connect an S-video cable and a component video cable at the same time. Otherwise the picture may not be played back properly.
- Connect the main unit directly to a TV (or a monitor) without routing through a video cassette recorder (VCR). Otherwise picture distortion may occur during playback. (Routing the connection through a VCR, however, does not affect the audio quality.)

Direct connection
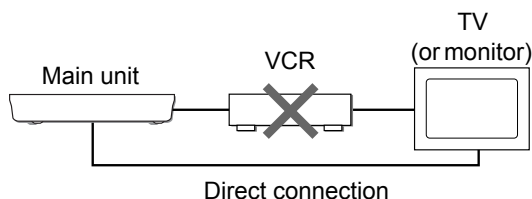
- Connecting the main unit to a VCR-built-in-TV may also cause picture distortion during playback.

▲/▼/◄/►/ ENTER

SETTING
SCAN MODE
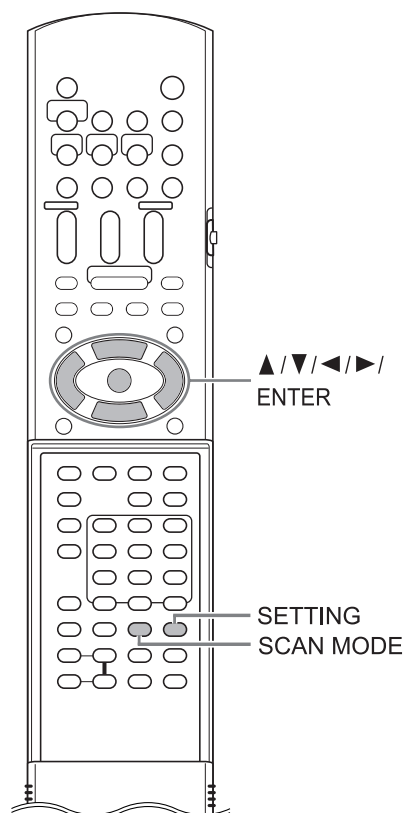
Selecting the video signal type

To view an image on the TV screen, select the video signal type correctly according to the TV after connecting the main unit to the TV.

1 **Turn on the main unit. (Refer to "Connecting the power cable" on page 16 and "Turning on the main unit" on page 17.)**

2 **Hold down [SCAN MODE] for 2 or more seconds.**

   • The current video signal type flashes.

Example:

$$NTSC \quad 480I$$

13

3 Press ◄ or ► to select the video signal type suitable for the TV.

- When the TV is connected to the [VIDEO] terminal or the [S-VIDEO] terminal, the video signal type can be selected as instructed below.
  - Select "NTSC 480I" for a TV only compatible with NTSC interlaced video siginal.
  - Select "NTSC 480P" for a TV equipped with a component terminal and compatible with NTSC progressive video signal.
  - Select "PAL 576I" for a TV only compatible with PAL interlaced video signal.
  - Select "PAL 576P" for a TV equipped with a component terminal and compatible with PAL progressive video signal.
- When the TV is connected to the [HDMI] terminal, the video signal type can be selected as instructed below. (Only for DD-8 and DD-3)
  - Select "AUTO" for normal usage (the initial setting).*
  - Select "NTSC 480P", "NTSC 720P", "PAL 576P" or "PAL 720P" as needed.

NOTE

- * The "AUTO" setting works only for a TV compatible with PAL video signal. Select "NTSC 480P" or "NTSC 720P" for a TV equipped with an HDMI terminal and compatible with NTSC video signal.
- "480", "576" and "720" refer to the number of the scanning lines. Generally, the larger the number, the better picture that can be obtained.
- "I" refers to the interlaced format. "P" refers to the progressive format. A better picture can be obtained in the progressive format than in the interlaced format.
- When an HDMI video signal is output, the "HDMI" indicator lights up in the display window.
- When an HD video signal (720p) is output, the "HD" indicator lights up.
- When "NTSC 480P", "NTSC 720P", "PAL 576P" or "PAL 720P" is selected, the "PROGRESSIVE" indicator lights up in the display window.

4 Press [ENTER].

- The selected video signal type is displayed in the display window for a short time.

NOTE

- The picture may be distorted when you press [ENTER], but this is not a malfunction of the system.
- To check the compatibility of your TV, contact your local JVC customer service center.
- All JVC-manufactured progressive TVs and high-definition TVs are fully compatible with this system.
- Even if the main unit is turned off, the video signal type setting is stored.

Selecting the monitor out type

To view an image on the TV, select the monitor out type as well as the video signal type.

1 Press [SETTING].

2 Press ▲ or ▼ to display "M.OUT".

```
M.OUT:NO HDMI
```

3 Press ◄ or ► to select "HDMI" or "NO HDMI".

- When using an HDMI cable to connect a TV to the main unit, select "HDMI".
- When an HDMI cable is not connected, select "NO HDMI" (the initial setting).

4 Press [ENTER] or wait for a short time.

14

Preparation

Connecting a portable digital audio player

Listening to analog sound from a portable digital audio player

Main unit (front view)

Input

PHONES USB LINE IN 1 LINE OUT

Audio cable
(not supplied)

To an audio output terminal

Output   Portable digital audio player or other audio device
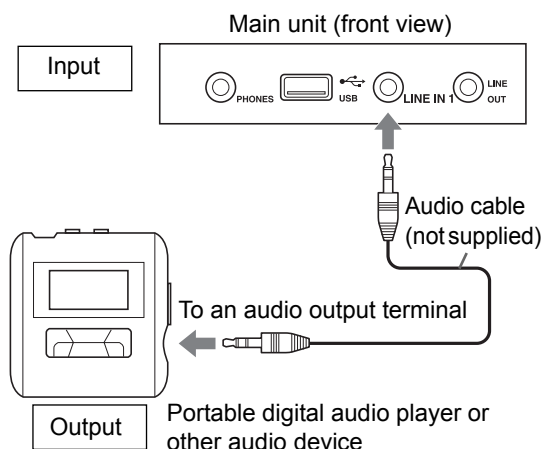
Outputting analog sound to a portable digital audio player

Main unit (front view)

Output

PHONES USB LINE IN 1 LINE OUT

Audio cable
(not supplied)

To an audio input terminal

Input   Portable digital audio player or other audio device
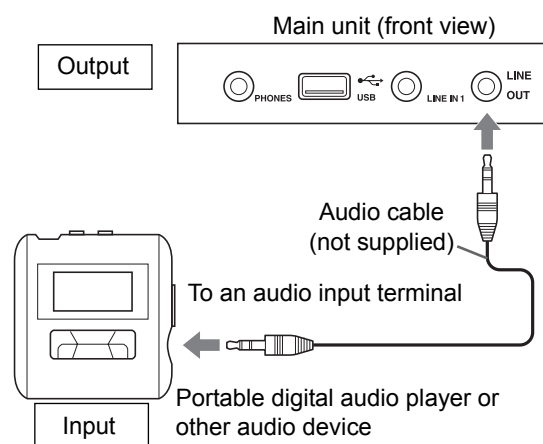
NOTE

• Signals input from the [LINE IN 1] and [LINE IN 2] terminals are not output to the [LINE OUT] terminal.

■ Selecting the analog output level of the [LINE OUT] terminal

You can lower the analog output level to prevent the system from producing unnecessarily loud sound. Controlling the level may also be helpful for recording sound from the system to other devices.

▲ / ▼ / ◀ / ▶
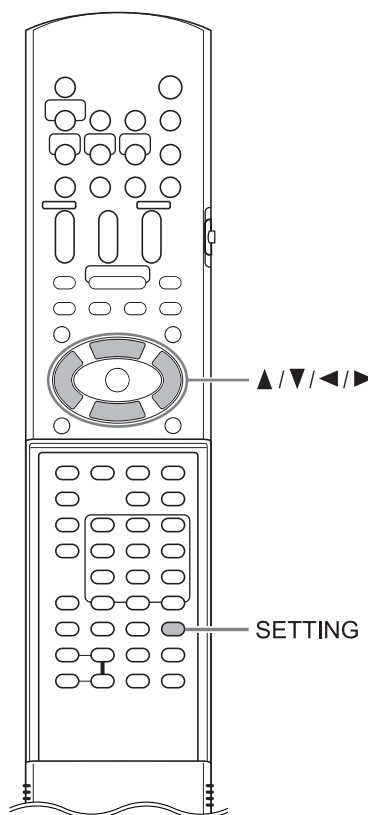
SETTING

1 **Press [SETTING].**

2 **Press ▲ or ▼ to select "LINEOUT" in the display window.**

LINEOUT: L1

3 **Press ◀ or ▶ to select "L1" or "L2".**

- "L1" for normal usage (the initial setting)

- "L2" for higher level

15

Connecting other digital audio devices

Input | AV amplifier with a built-in decoder

To an optical digital input terminal

Optical digital cable (not supplied)

Main unit (rear view)

LINE-DIGITAL
IN | OUT

Input | Output

Optical digital cable (not supplied)

To an optical digital output terminal

MD player or satellite receiver | Output
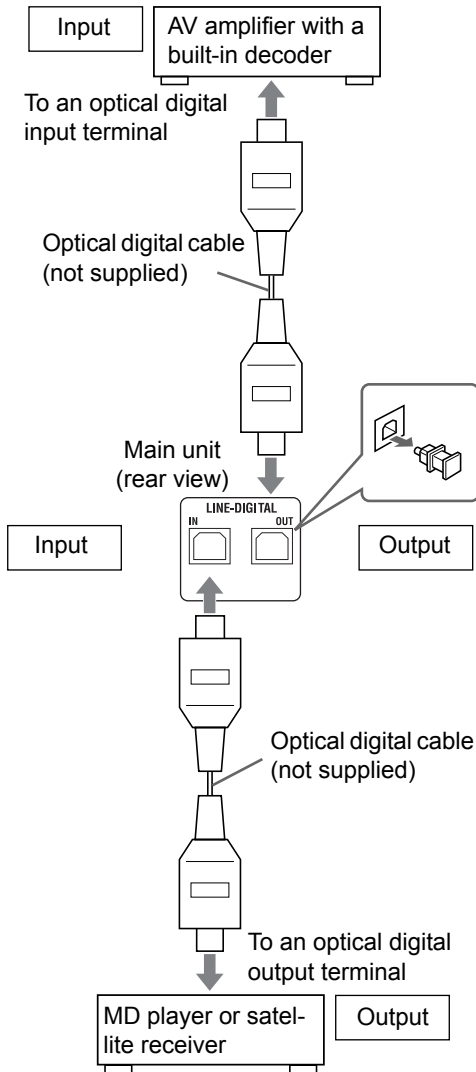
Connecting other analog audio devices

Output | AUDIO OUT R L | Audio device

Audio cable (not supplied)

Input | RIGHT LINE IN 2 LEFT | Main unit (rear view)
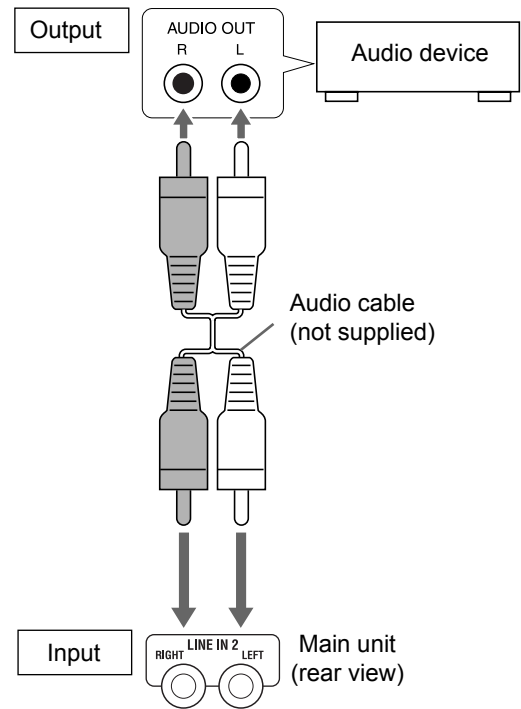
Connecting the power cable

■Main unit
AC outlet   Main unit (rear view)
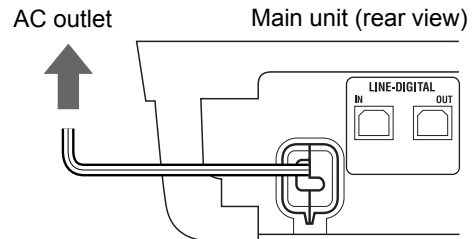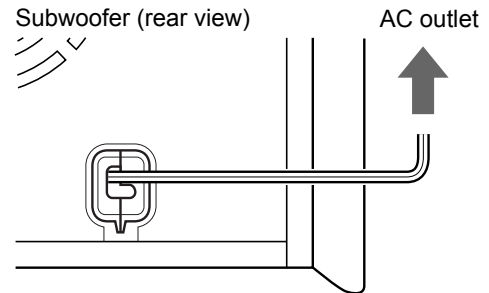
LINE-DIGITAL
IN   OUT

■Subwoofer
Subwoofer (rear view)   AC outlet

■ CAUTION
• Do not connect the power cable of the subwoofer to an AC outlet before setting the voltage selector on the subwoofer and completing all connections. Refer to page 11.

16

Basic operations

NETWORK ►
(For DD-8/DD-3)
DIMMER
(For DD-1)
USB ►
LINE

OPEN/CLOSE ▲
⏻/I AUDIO
FM/AM
MUTING
Remote control
mode selector
AUDIO
VOL + / −

DVD/CD ►

▲ / ▼ / ◄ / ►

Number
buttons

A.STANDBY
CH LEVEL
BASS/TREBLE
+ / −

SLEEP
SETTING
DIMMER
(For DD-8/
DD-3)

CLEAR VOICE
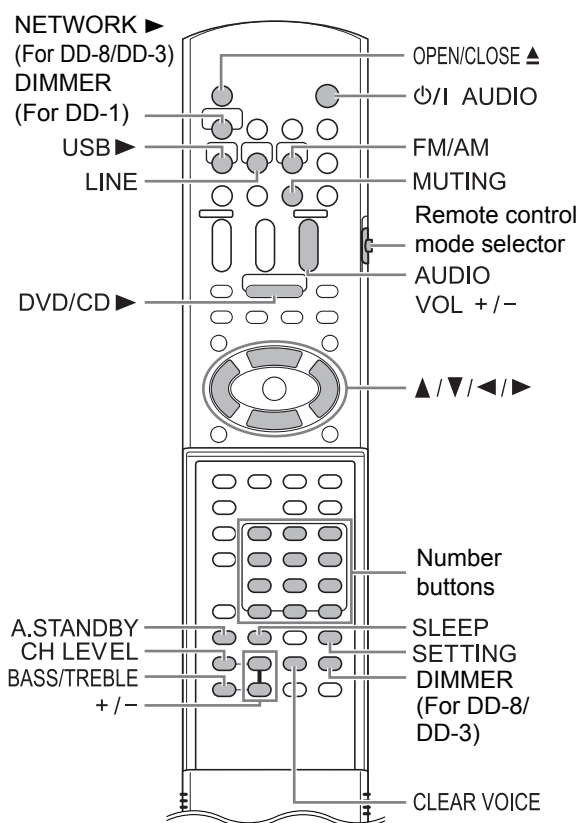
■ CAUTION

• Slide the remote control mode
selector to [AUDIO].
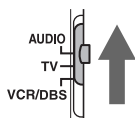
AUDIO
TV
VCR/DBS

Using the number buttons

Examples:

5: [5]

15: [≧10] → [1] → [5]

150: [≧10] → [≧10] → [1] → [5] → [0]

Turning on the main unit

Press [⏻/I AUDIO].

• Press [⏻/I AUDIO] again to turn off the main
unit.
• With the power off, pressing any of the following
buttons also turns on the main unit.
  - [DVD/CD ►], [USB ►], [NETWORK ►] (only
    for DD-8/DD-3), [LINE], [FM/AM] or [OPEN/
    CLOSE ▲] on the remote control
  - ►, ▲ or [SOURCE] on the main unit
  The function assigned to the button starts work-
  ing at the same time.

Adjusting the volume

Press [AUDIO VOL +/–].

• Adjustable volume range is from 0 to 40.
• You can also adjust the volume by pressing
  [VOLUME+/–] on the main unit.

NOTE

• Refer to page 18 for adjusting the volume of the
  center surround speaker/subwoofer.
• Refer to page 18 for adjusting the volume bal-
  ance between the left and right speakers.

Turning off the sound
temporarily

Press [MUTING].

• Press [MUTING] again to restore the sound.
  When the main unit is turned off once and turned
  on again, the sound also is restored.

Sharpening the voice sound

This function allows you to easily understand dialog recorded on the disc/file even with the volume down low.

Press [CLEAR VOICE].

• Each time you press [CLEAR VOICE], the clear voice function turns on and off.

> This indicator lights up when the clear voice function is activated.

> └─⦀
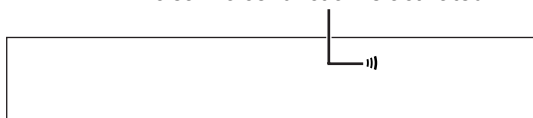
NOTE

• This function is effective when receiving the center channel signal with surround sound, or when the surround mode is activated even with stereo sound (refer to page 34).

Adjusting the bass/treble sound

1 Press [BASS/TREBLE] repeatedly to select "BASS" or "TREBLE" in the display window.

2 Press [+] or [–] to adjust the sound quality.

• Adjustable sound quality is from –5 to +5.

Adjusting the volume of the center surround speaker/ subwoofer

1 Press [CH LEVEL] to repeatedly select "SURR" (the center surround speaker) or "SUBWFR" (the subwoofer) in the display window.

2 Press [+] or [–] to adjust the volume.

NOTE

• Adjustable volume range is from –6 to +6.

Adjusting the volume balance between the left and right speakers

1 Press [SETTING].

2 Press ▲ or ▼ to display "BAL: " in the display window.

> BAL : CENTER

3 Press ◄ or ► to adjust the volume balance.

• "CENTER" (the initial setting) is displayed when the volume of the left and right speakers are the same.

• You can adjust the volume range respectively for the left and right speakers. Adjustable volume range is from –21 to –1.

Changing the brightness of the display window

Press [DIMMER].

- Each time you press [DIMMER], the display changes in the display window as follows.
  - "DIMMER 1"
    The display window becomes darker than the normal display brightness.
  - "DIMMER 2"
    The display window becomes darker than "DIMMER 1".
  - "DIMMER AUTO"
    When a video disc/file is played back, the display window becomes darker automatically.
  - "DIMMER OFF"
    The normal display brightness is restored.

Using the sleep timer

When the time you specify elapses, the main unit automatically turns off.

Press [SLEEP].

- Each time you press [SLEEP], the time indicated in the display window changes. You can set the time to 10, 20, 30, 60, 90, 120 or 150 minutes.

Example : Display when the sleep timer is set to 60 minutes

$$SLEEP \quad 60$$

NOTE
- When the sleep timer is activated, the display window becomes darker automatically.

Changing the remaining time
Press [SLEEP] repeatedly to select the time again.

Confirming the remaining time
Press [SLEEP] once.

Canceling the sleep timer
Press [SLEEP] repeatedly until "SLEEP" disappears.

NOTE
- Turning off the main unit cancels the sleep timer.

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Auto standby function

If no sound is produced for 3 minutes, the main unit automatically turns off.
This function is available when a disc/file is selected as the source.
You cannot use this function when a radio broadcast or a device connected to the [LINE IN 1], [LINE IN 2] or [LINE-DIGITAL IN] terminals is selected as the source.

Activating the auto standby function

■When a disc/file is selected as the source

Press [A.STANDBY].

"A. STANDBY" indicator

```
                                    A.STANDBY
        A.STANDBY  ON
```

• Pressing [A.STANDBY] once again deactivates the function. (The display window changes to "A.STANDBY OFF".)

Performance of the auto standby function

When playback of a disc/file finishes, the auto standby function starts a countdown.

At this time, the "A.STANDBY" indicator starts flashing.

```
                                   A.STANDBY
```
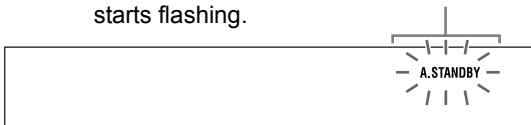
20 seconds before the main unit turns off, "A.STANDBY" starts flashing.

```
                                   A.STANDBY
        A. STANDBY
```

When no operation is carried out for 3 minutes, the main unit automatically turns off.

NOTE

• Leaving the volume at "0" is not the same as producing no sound, and therefore does not start the auto standby function.

Locking disc ejection

You can lock the disc tray to prevent the disc from being ejected.

Setting the disc ejection lock
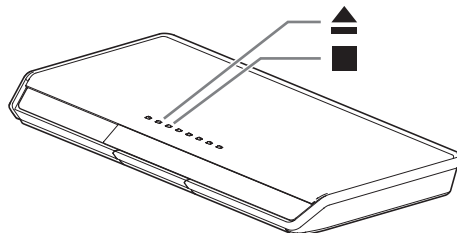
■When the main unit is turned off

Press ⏏ while holding down ■ on the main unit.

```
        LOCKED
```

• Repeat this step to cancel the disc ejection lock. (The display window changes to "UNLOCKED".)

Listening to radio broadcasts
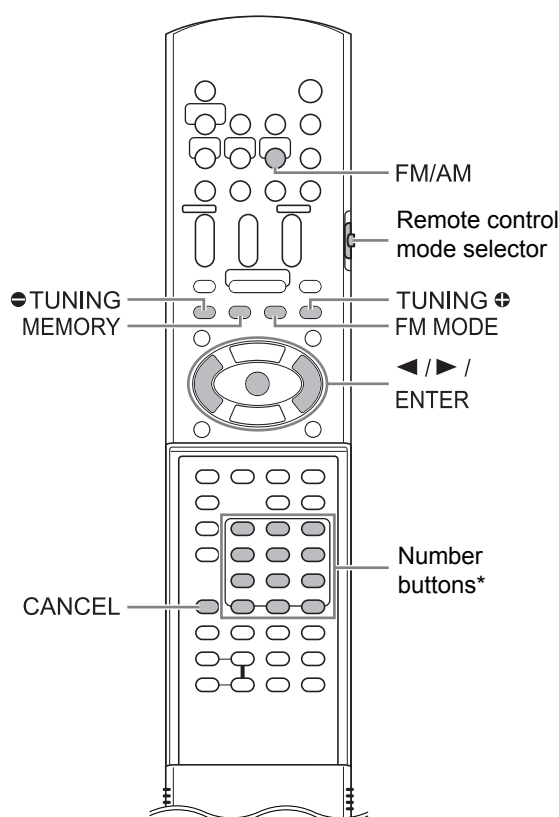
FM/AM

Remote control mode selector

TUNING
MEMORY

TUNING
FM MODE

◄ / ► / ENTER

Number buttons*

CANCEL

* For the number button usage, refer to "Using the number buttons" on page 17.

■ **CAUTION**
• Slide the remote control mode selector to [AUDIO].

AUDIO
TV
VCR/DBS
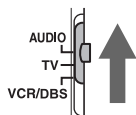
Setting the AM tuner spacing

AM stations are spaced 9 kHz apart in some countries and 10 kHz in other countries.

⏻/Ⅰ
VOLUME ＋/－
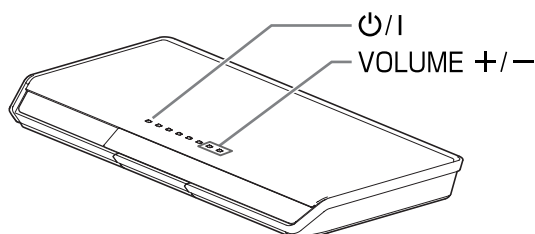
■When the main unit is turned off

To select 9 kHz spacing, while holding down [VOLUME –] on the main unit, press ⏻/Ⅰ on the main unit to turn on the power. "AM 9 kHz STEP" appears in the display window.
To select 10 kHz spacing, while holding down [VOLUME +] on the main unit, press ⏻/Ⅰ on the main unit to turn on the power. "AM 10 kHz STEP" appears in the display window.

NOTE
• When the spacing is switched, the preset radio station memory is erased.

Selecting a radio station

1 **Press [FM/AM] to select "FM" or "AM" in the display window.**

• Each time you press [FM/AM], the band toggles between "FM" and "AM".

• Repeatedly pressing [SOURCE] on the main unit can also select a radio broadcast as the source.

Example: Display when an FM radio broadcast is received

Stereo indicator Frequency (M: MHz/k: kHz)

ST
F M 1 8 7 . 5 0 M

Preset number (Refer to page 22.)
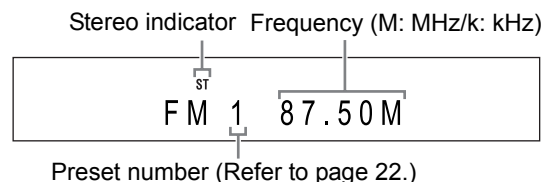
2 Press [● TUNING] or [TUNING ●] repeatedly to select a radio station.

- When the main unit has receive an FM stereo broadcast, the "ST" (stereo) indicator lights up in the display window.
- You can also select a radio station using the automatic tuning.

■Automatic tuning

Hold down [● TUNING] or [TUNING ●] until the frequency starts changing, and then release the button.

- When the main unit has received a broadcast, the frequency automatically stops changing.
- You can select a specific radio station while searching for a broadcast. Press [● TUNING] or [TUNING ●] to stop the automatic tuning when the desired frequency appears in the display window.

NOTE

- If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear the broadcast more easily by pressing [FM MODE] to switch the sound to monaural reception. In this case, the "MONO" (monaural) indicator lights up in the display window. To return the sound to stereo reception, press [FM MODE] again.

Tuning in to a preset radio station

Presetting radio stations in the main unit allows you to easily tune in to a radio station.

Presetting radio stations

You can store up to 30 FM radio stations and up to 15 AM radio stations.

1 Select a radio station you want to store.

- Refer to "Selecting a radio station" on page 21.

2 Press [MEMORY].

- The preset number flashes in the display window.

3 While the preset number is flashing, press the number buttons to select the preset number.

Example: When storing the radio station "AM 810 kHz" to the preset number "5"

AM-5- 810k
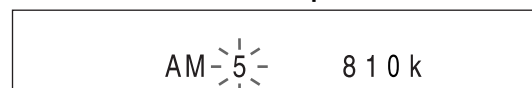
4 While the selected number is flashing, press [MEMORY] or [ENTER].

- "STORED" appears and the selected radio station is stored.

NOTE

- When you store a radio station to a preset number to which another radio station has previously been stored, the newly set radio station replaces the previously stored radio station.
- You can also use ◄ or ► to select the preset number in step 3.

Tuning in to a preset radio station

■When an FM or AM radio broadcast is selected as the source

Press the number buttons to select the preset number.

- You can also select the preset number by pressing ◄ or ►.
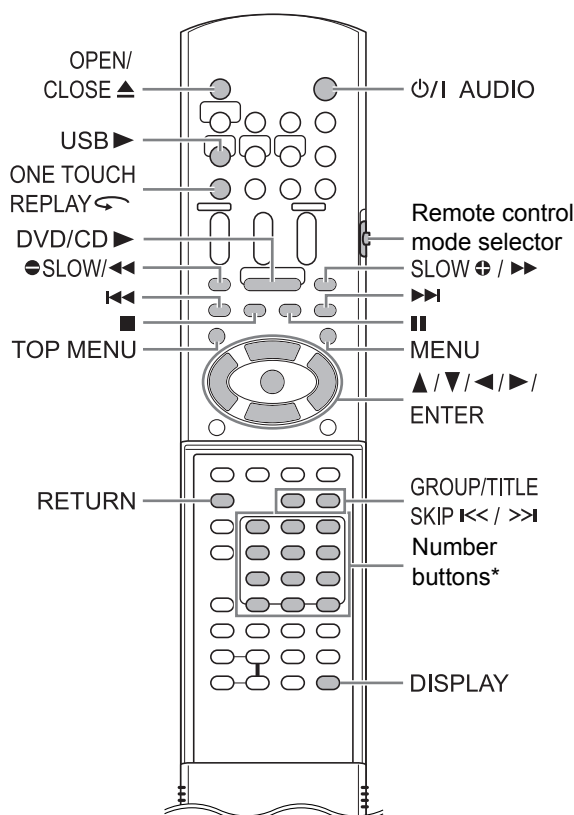
22

Basic operations of disc/file playback

* For the number button usage, refer to "Using the number buttons" on page 17.

■ **CAUTION**
• Slide the remote control mode selector to [AUDIO].

Playing back a disc

DVD **VCD** **CD**
VIDEO **SVCD**
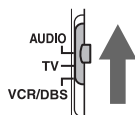
This part explains playing back the types of discs shown above.

1 Press [OPEN/CLOSE ⏏] on the remote control or ⏏ on the main unit.

• The disc tray ejects.

2 Place a disc.

Printed surface
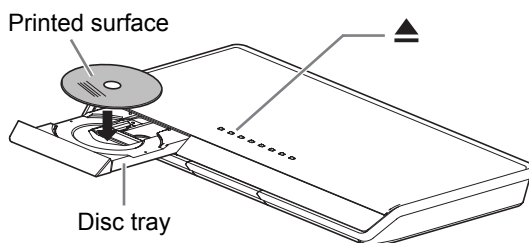
Disc tray

• To play back an 8-cm disc, place it on the inner hollow of the disc tray.

3 Press [DVD/CD ►].

NOTE
• Instead of step 3, you can use the buttons on the main unit. Repeatedly pressing [SOURCE] can select the disc as the source, and pressing ► starts playback.
• A menu screen may appear on the TV screen after DVD playback starts. In such a case, operate the menu screen, referring to "Selecting a track from the menu screen" on page 30.
• If you perform an operation, such as changing the source quickly or loading an incompatible disc (refer to pages 49-51), the disc may not be played back or ejected. In this case, turn off the main unit and turn it on again by using ⏻/І on the main unit.

23

Playing back a file

MP3/WMA **WAV** **JPEG** **ASF** **DivX** **MPEG1/MPEG2**

This part explains playing back 1) files recorded on the loaded disc, and 2) files recorded on a USB mass storage class device connected to the main unit. The operation is explained with a display of MP3 files as an example.

NOTE

• When files of different types are recorded on a disc or connected USB mass storage class device, select the file type before playback. (Refer to "FILE TYPE" on page 39.)

1 Prepare the system for file playback by following the operations below.

■When you want to play back files on a disc

Place a disc on the disc tray.
• Refer to steps 1 and 2 on page 23.

■When you want to play back files on a USB mass storage class device

Connect the USB mass storage class device to the [USB] terminal on the front of the main unit.

Main unit (front view)

Flash memory device, portable digital audio player or other USB mass storage class device
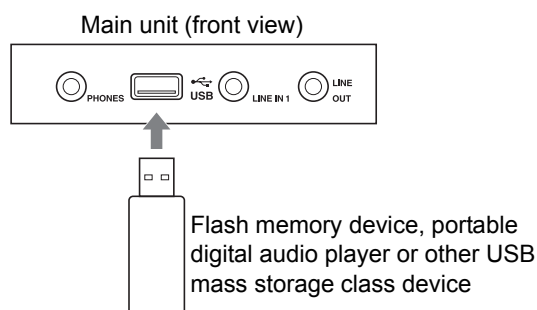
NOTE

• Copyrighted files cannot be played back.
• This system cannot recognize a USB mass storage class device whose rating exceeds 5V/500mA.
• When connecting a USB mass storage class device, refer also to its manual.
• When using a USB cable for connecting a USB mass storage class device, its length should be less than 1 m.
• Connect a USB mass storage class device directly to the main unit without routing through a USB hub. Otherwise a malfunction may occur.
• Before disconnecting the USB mass storage class device, make sure that playback is stopped.

• The main unit does not charge a USB mass storage class device connected to the [USB] terminal.

2 Press [DVD/CD ►] or [USB ►].

NOTE

• You can also use the buttons on the main unit. Repeatedly pressing [SOURCE] can select the disc/file as the source, and pressing ► starts playback.
• If you select another source while "READING" is displayed in the display window, sound is not produced until reading of the files is finished.

3 Press ■ to stop playback.

• The menu screen appears on the TV screen.

When a file recorded on the connected USB mass storage class device is selected as the source, "USB" is displayed.

Numbers of the current group and total groups recorded on the loaded disc or connected USB mass storage class device

Numbers of the current track (file) and total tracks (files) included in the current group

Elapsed playback time of the current track (MP3/WMA/WAV file only)

Playback status

Number of the total tracks (files) recorded on the loaded disc or connected USB mass storage class device

Current track (file)

Tag information (MP3/WMA file only)

Current group

24

NOTE
• Depending on the file type, the menu screen appears before you press ■.

4 Press ▲, ▼, ◄ or ► to select a group and track.

NOTE
• You can also use [GROUP/TITLE SKIP ⋘/⋙] to select a group, and the number buttons, I◄◄ or ►►I to select a track.

5 Press [DVD/CD ►] or [USB ►].

NOTE
• If you have skipped step 3, you do not have to proceed to step 5.

Slide-show playback
• JPEG files are continuously played back from the selected file.
• Display time for a file in slide-show playback is approximately 3 seconds.
• Press [ENTER] to view only the selected file.

Display window on the main unit for disc/file types

DVD VIDEO | VCD SVCD | CD | MP3 WMA | WAV | JPEG | ASF
DivX | MPEG1 MPEG2

DVD VIDEO

■When a disc is played back

```
        TITLE   CHAP
         1    1 0   1 : 1 3 : 3 5
```

Title number   Chapter   Elapsed
                number   playback time

■When a disc is stopped

```
        D V D     T 1 5
```

Disc type   Total number of titles

VCD/SVCD

■When a disc is played back

```
              TR
        V C D   1      P B C
```
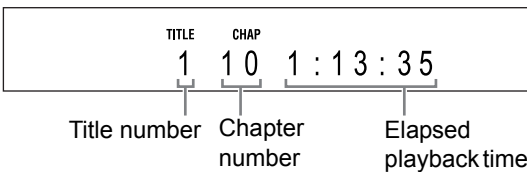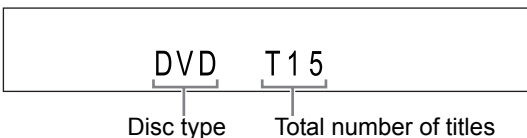
Track number   Playback control
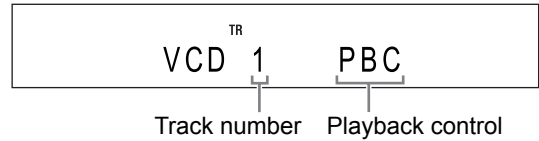
• You can control the playback of a PBC compatible disc using a menu screen.
• To cancel the PBC function, follow the instructions below.
  - Specify the track number using the number buttons when the disc is stopped.
  - Specify the track number using I◄◄ or ►►I when the disc is stopped, and then press [DVD/CD ►].
• Press [RETURN] to go back to the upper layer during PBC playback.

■When a disc is stopped

```
              TR
        V C D 1 2   1 : 1 3 : 3 5
```

Disc type   Total number   Total playback
            of tracks   time
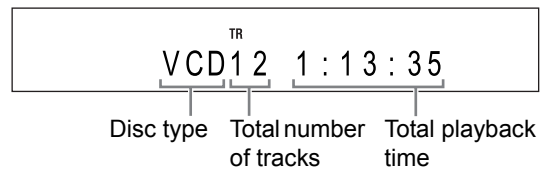
(When the PBC function is activated)

```
              TR
        V C D        P B C
```

CD

■When a disc is played back

```
        TR
    CD   1   0 : 0 0 : 0 3
```

Track number   Elapsed playback time

■When a disc is stopped

```
        TR
    CD  1 2  1 : 1 3 : 3 5
```

Disc type   Total number of tracks   Total playback time
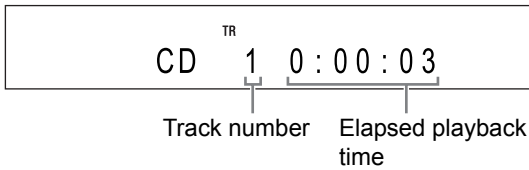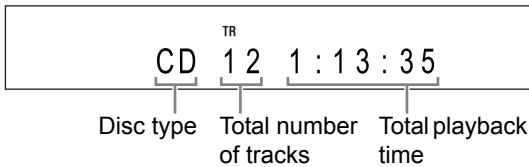
MP3/WMA/WAV/ASF/DivX/MPEG1/ MPEG2 file

■When a file is played back

```
   GR      TR
    1    1   0 : 0 0 : 0 3
```

Group number   Track number   Elapsed playback time

■When a file is stopped

```
    MP 3    G  1   T   1
```

File type   Group number   Track number
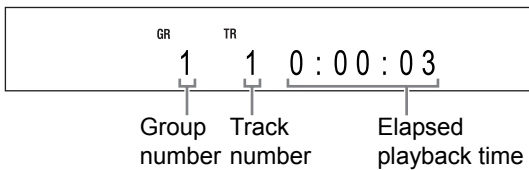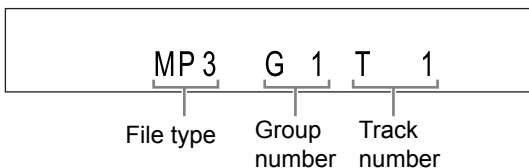
■Changing the display in the display window (Only for MP3/WMA files)

For an MP3/WMA file, you can change the display in the display window to see tag information and a file name.

When a disc/file is played back

Press [DISPLAY] repeatedly.

• Each time you press [DISPLAY], the display changes in the display window.

JPEG file

■When a file is played back or stopped

```
    JPG    G  1   F   1
```

File type   Group number   File number
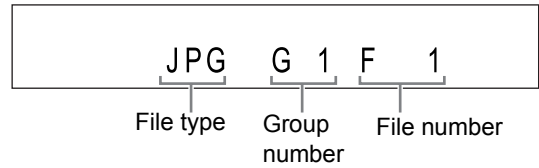
Messages on the TV screen
When a DVD VIDEO is selected as the source, the messages shown below are displayed on the TV screen to indicate the disc status.

NOW READING:
Appears when the main unit is reading the disc information. Wait for a short time.

REGION CODE ERROR!:
Appears when the region code of the disc does not match the code the main unit supports. (Refer to page 49.)

NO DISC:
Appears when no disc is loaded.

OPEN:
Appears when the disc tray is opening.

CLOSE:
Appears when the disc tray is closing.

CANNOT PLAY THIS DISC:
Appears when an unplayable disc is attempted to be played back.

26

Guide icons on the TV screen (on-screen guide)

▶ : Play

❚❚ : Pause

◀◀ ▶▶ : Fast reverse/fast forward search

◀❚ ❚▶ : Slow motion playback (reverse/forward directions)

🎥 : Containing multi-view angles (Refer to page 31.)

◯)) : Containing multi-audio languages (Refer to page 31.)

⊡.... : Containing multi-subtitle languages (Refer to page 31.)

⃠ : The disc/file cannot accept the operation you have attempted.

Indicators in the display window related to the speaker sound

The indicators light up in the display window to show the input signals and the speakers in use.

DD�D	The input signal is DOLBY DIGITAL.
DD␣PLⅡ	The input signal is processed using DOLBY DIGITAL PRO LOGIC II.
dts	The input signal is DTS.
L PCM	The input signal is LPCM.
SW	The sound is produced from the sub-woofer.
▢	The " L ", " R ", " LS " or " RS " indicator in the frame (▢) shows the speaker producing the sound.
L	The input signal is for the left speaker.
C	The input signal is for the center surround speaker.
R	The input signal is for the right speaker.
LFE	The input signal is LFE.
LS	The input signal is for the left speaker on the center surround speaker.
S	The input signal is monaural or 2-channel Dolby surround.
RS	The input signal is for the right speaker on the center surround speaker.
SURROUND	The surround mode is activated.

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Basic operations of disc/file playback

Stopping playback

DVD VIDEO | VCD SVCD | C D | MP3 WMA | WAV | JPEG | ASF

DivX | MPEG1 MPEG2

■When a disc/file is played back

Press ■ .

Resuming playback

DVD VIDEO | VCD SVCD | C D

MP3 WMA | ASF | DivX | MPEG1 MPEG2

(only for the loaded disc)

When playback is stopped in the middle, playback can be started from the stopped position.

▌Temporarily stopping playback

■When a disc/file is played back

Follow any of the operations below.

Press ■ once.*1
Press [⏻/I AUDIO] to turn off the main unit.*2

*1 "RESUME" is displayed in the display window. After this operation, the position where playback has been stopped is stored even when the main unit is turned off by pressing [⏻/I AUDIO].
*2 This operation does not work for a CD.

▌Starting playback from the stored position

Press [DVD/CD ►] .

NOTE

• This function does not work in program playback or random playback.
• You can deactivate the resume playback function. (Refer to"RESUME" on page 40.)

▌Clearing the stored position

Press ■ twice.

NOTE

• The stored position is also cleared if the disc tray is opened.

Pausing playback

DVD VIDEO | VCD SVCD | C D | MP3 WMA | WAV | JPEG | ASF

DivX | MPEG1 MPEG2

■When a disc/file is played back

Press ❚❚.

• Press [DVD/CD ►] or [USB ►] to return to the normal playback.

Advancing the picture frame by frame

DVD VIDEO | VCD SVCD | DivX | MPEG1 MPEG2

■When a disc/file is paused

Press ❚❚ repeatedly.

Fast reverse/fast forward search

DVD VIDEO **VCD SVCD** **C D** **MP3 WMA** **ASF** **DivX** **MPEG1 MPEG2**

There are 2 methods.

■When a disc/file is played back

- **Press ◄◄ or ►►.**
  - Each time you press ►►, the speed increases. To restore the normal speed, press [DVD/CD ►] or [USB ►].

- **Hold down I◄◄ or ►►I.**

NOTE

- For some discs/files, sound is intermittent or no sound is produced during fast reverse/fast forward search.
- The selectable speeds and displays vary by the disc/file type.

Playing back from a position 10 seconds before

DVD VIDEO

■When a disc is played back

Press [ONE TOUCH REPLAY ↶].

NOTE

- You cannot go back to the previous title.

Slow motion playback

DVD VIDEO **VCD SVCD**

■When a disc is paused

Press [● SLOW] or [SLOW ●].

- Each time you press [● SLOW] or [SLOW ●], the speed increases.
- Pressing [DVD/CD ►] cancels this function and starts normal playback.

NOTE

- No sound is produced.
- The picture motion in the reverse direction may not be smooth.
- For a VCD or SVCD, slow motion playback can be used in the forward direction only.

Skipping to the beginning of a chapter/track/file

DVD VIDEO **C D** **MP3 WMA** **WAV** **JPEG** **ASF** **DivX** **MPEG1 MPEG2** **VCD SVCD** (PBC off)

■When a disc/file is played back

Press I◄◄ or ►►I repeatedly.

- Press [GROUP/TITLE SKIP ⫷ / ⫸] to select the title or group.

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Selecting a chapter/track using the number buttons

`DVD VIDEO` `CD` `MP3 WMA` `WAV` `JPEG` `ASF` `DivX`
`MPEG1 MPEG2` `VCD SVCD` —(PBC off)

■When a disc/file is played back

Press the number buttons to select the chapter number or track number.

Skipping at approximately 5 minute intervals

`DivX`

You can skip within a file at approximately 5 minute intervals. This is useful especially when you want to skip within a long file.

■When a disc/file is played back

Press ◄ or ►.

• Each time you press ◄ or ►, the playback position skips to the beginning of the previous or next interval. Each interval is approximately 5 minutes.

NOTE
• Intervals are automatically assigned from the beginning of a file.
• You can use this function only within the same file.

Selecting a track from the menu screen

`DVD VIDEO` `VCD SVCD`

■When a disc is stopped or played back

1 Press [MENU] or [TOP MENU].

• The menu screen is displayed.

2 Press ▲, ▼, ◄ , ► or the number buttons to select the desired track.

3 Press [ENTER].

NOTE
• You can use this function only when a menu screen is recorded on the disc.
• For a VCD/SVCD, [MENU] and [TOP MENU] may be unavailable in step 1. In this case, press [RETURN] once or more.
• For a VCD/SVCD, you cannot use ▲, ▼, ◄ or ► in step 2.
• For a VCD/SVCD whose menu screen has a couple of pages, you can change the page by pressing |◄◄ or ►►| in step 2.
• Playback may start for some discs without pressing [ENTER] in step 3.

Convenient functions of disc/file playback
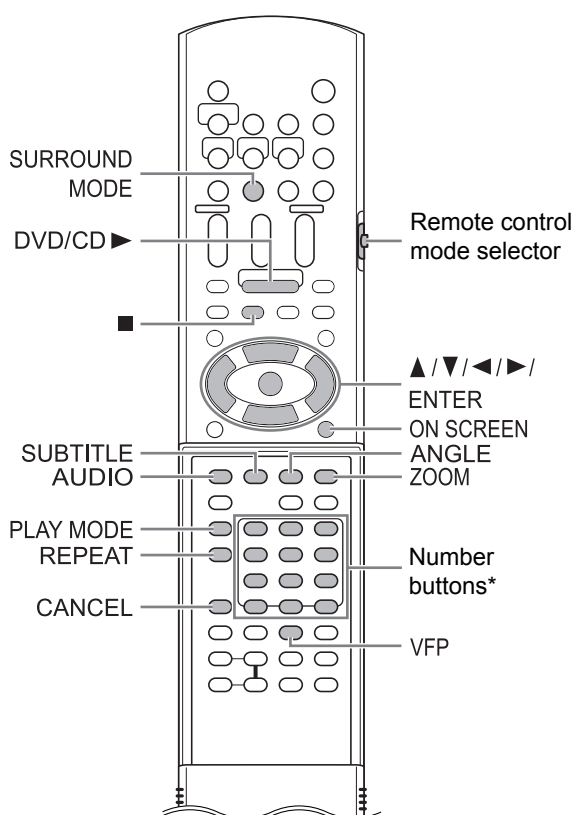
SURROUND MODE

DVD/CD ►

Remote control mode selector

▲ / ▼ / ◄ / ► / ENTER

ON SCREEN

SUBTITLE
AUDIO

ANGLE
ZOOM

PLAY MODE
REPEAT

Number buttons*

CANCEL

VFP

* For the number button usage, refer to "Using the number buttons" on page 17.

■ CAUTION
• Slide the remote control mode selector to [AUDIO].
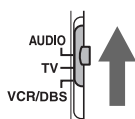
AUDIO
TV
VCR/DBS

Selecting the audio language, subtitle language and view angle

■ When a disc/file is played back

Press the desired button shown below.
• Each time you press the button, the audio language, subtitle language or view angle changes.

Function	Button	Available disc/file
Audio language	**[AUDIO]**	DVD VIDEO VCD SVCD DivX
Subtitle language	**[SUBTITLE]**	DVD VIDEO SVCD DivX
View angle	**[ANGLE]**	DVD VIDEO

TV screen (example for the subtitle language)

◯))) : Audio language

▭ : Subtitle language

📷 : View angle

▭ 1/4
△
ENGLISH
▽
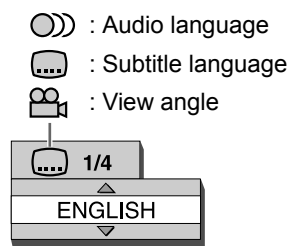
NOTE
• The audio language, subtitle language and view angle can also be changed by pressing ▲ or ▼.
• You can only select these function settings when the disc/file contains multiple audio languages, subtitle languages or view angles.
• When a language code such as "AA" and "AB" is displayed, refer to "Language codes" on page 41.
• You can also use the menu bar to set the functions. Refer to page 36.
• "ST", "L" and "R" displayed when playing back a VCD or SVCD, respectively, indicate "Stereo", "Left sound" and "Right sound".

Playing back a disc/file in the desired order (Program playback)

VCD SVCD **C D**
MP3 WMA **WAV**
—(only for the loaded disc)
You can program a maximum of 99 tracks. The same track can be programmed more than once.

■When a disc/file is stopped

1 Press [PLAY MODE] repeatedly to display "PROGRAM" in the display window.

Example: Display for a CD

```
      CD         PROGRAM PRG
```

Example: TV screen for a CD (Program screen)

PROGRAM		
No.	Group/Title	Track/Chapter
1		
2		
3		
4		
5		
6		
7		
8		

2 Press the number buttons to program tracks.

Display for an MP3/WMA/WAV file
• Select a group number, and then a track number.

Group indicator   Track indicator

```
 GR   TR
    1    3  PRGM.  1  PRG
```

Group number   Track number   Program number
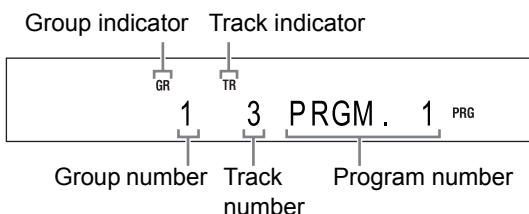
Display for a VCD/SVCD/CD
• Select a track number.

Track indicator

```
       TR
   CD    3  PRGM.  1  PRG
```

Track number   Program number
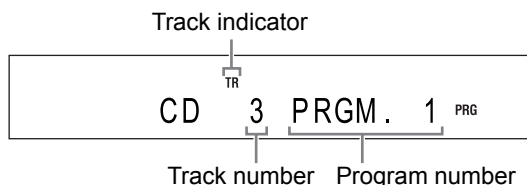
Example: TV screen for a CD (Program screen)

PROGRAM		
No.	Group/Title	Track/Chapter
1		3
2		
3		
4		
5		
6		
7		
8		

• You can program up to 99 tracks.

NOTE
• Instead of using the number buttons, when you press [ENTER] in the "Track/Chapter" column on the TV screen, "ALL" appears and all the tracks in the selected group are programmed.
• You can erase the programmed tracks one by one from the bottom of the list on the program screen by pressing [CANCEL] repeatedly.
• You can erase the whole program at once by pressing ■ .
• Ejecting the disc or turning off the main unit also erases the program.

3 Press [DVD/CD ►].

Confirming the program

■When a disc/file is played back

Press ■ .
• Playback stops and the program screen appears on the TV screen.

Canceling program playback

■When a disc/file is stopped

Press [PLAY MODE] repeatedly to display an item other than "PROGRAM" in the display window.
• This operation does not erase the program.

Playing back a disc/file in a random order (Random playback)

DVD VCD CD
VIDEO SVCD

MP3 WAV
WMA
(only for the loaded disc)

■When a disc/file is stopped

1 Press [PLAY MODE] repeatedly to display "RANDOM" in the display window.

• Selecting an item other than "RANDOM" cancels random playback.

2 Press [DVD/CD ►].

NOTE
• Each chapter or track is played back only once.
• Ejecting the disc or turning off the main unit cancels random playback.

Magnifying the picture

DVD VCD
VIDEO SVCD

■When a disc is played back or paused

1 Press [ZOOM].

• Each time you press the button, the picture magnification changes in the display window.

2 Select the portion you want to magnify by using ▲, ▼, ◄ or ►.

• To return to normal playback, select "ZOOM x 1" in step 1.

NOTE
• When you magnify a picture, image quality may be deteriorated or the image may be distorted.

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Playing back a disc/file repeatedly (Repeat playback)

| DVD VIDEO | CD | MP3 WMA | WAV | JPEG | ASF | DivX |

| MPEG1 MPEG2 | VCD SVCD |—(PBC off)

■When a disc/file is played back

Press [REPEAT].

• Each time you press [REPEAT], the repeat mode changes.

Display on the TV screen	Display in the display window	Indica-tor in the display window	Usage for the repeat mode
⌒TITLE	REPEAT TITLE	⟲ALL	Repeats the current title.
⌒ALL or REPEAT ALL	REPEAT ALL	⟲ALL	Repeats all tracks*1.
⌒GROUP or REPEAT GROUP	REPEAT GROUP	⟲ GR	Repeats the current group.
⌒CHAP*2	REPEAT CHAP*2	⟲	Repeats the current chapter.
⌒TRACK*2 or REPEAT TRACK	REPEAT TRACK*2	⟲	Repeats the current track.
⌒OFF or no display	REPEAT OFF	───	Cancels repeat.

*1 Repeats the whole program during program playback.
*2 "STEP" is displayed during program/random playback.

NOTE

• Repeat playback can also be set using the menu bar. (Refer to page 36.)
• You can also specify a part to be played back repeatedly by using A-B repeat playback. (Refer to page 37.)
• The repeat mode is automatically canceled if there is a file that cannot be played back.

Selecting the surround mode

| DVD VIDEO | VCD SVCD | CD | MP3 WMA |

Press [SURROUND MODE].

• Each time you press [SURROUND MODE], the display changes in the display window as follows.

- "AUTO SURROUND"
  When a multi-channel signal is input, surround sound is automatically produced.
- "MOVIE/M.MUSIC"
  Surround sound suitable for a movie or multi-channel signal is produced.
- "WIDE/2chMUSIC"
  When a 2ch signal is input, surround sound is produced. The sound is broader than the one with "MOVIE/M.MUSIC".
- "SUPER WIDE"
  Surround sound broader than the one with the "WIDE/2chMUSIC" is produced.
- "SURROUND OFF"
  Turns off the surround sound.

NOTE

• When a surround-processed signal is input while "AUTO SURROUND", "MOVIE/M.MUSIC", "WIDE/2chMUSIC" or "SUPER WIDE" is selected, the "SURROUND" indicator in the display window lights up.
• Depending on the signal type, surround sound may not be produced as the surround mode setting.
• During playback, when you change the surround mode setting, sound from the [LINE OUT] and [LINE-DIGITAL OUT] terminals may be intermittent. Before recording sound to another device, select the desired surround mode setting.

Convenient functions of disc/file playback (continued)

For the locations of the remote control buttons, refer to page 31.

Convenient functions of disc/file playback

Adjusting the picture quality (VFP)

DVD **VCD**
VIDEO **SVCD**

■When a disc is played back or paused

1 Press [VFP].

• The current settings are displayed.

TV screen (example)

Selected VFP mode

```
NORMAL
  GAMMA        [      ]
  BRIGHTNESS   [      ]
  CONTRAST     [      ]
  SATURATION   [      ]
  TINT         [      ]
  SHARPNESS    [      ]
```
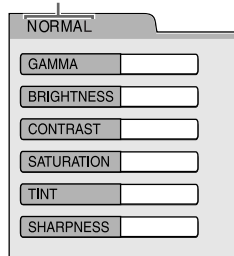
2 Press ◄ or ► to select VFP mode.

• Each time you press ◄ or ►, VFP mode changes on the TV screen as follows.

  - "NORMAL"
    For normal playback. (You cannot adjust the image quality.) Go to step 7.

  - "CINEMA"
    Suitable for viewing a movie in a dim room. (You cannot adjust the image quality.) Go to step 7.

  - "USER1/USER2"
    You can adjust the image quality. Go to step 3.

3 Press ▲ or ▼ to select the item you want to adjust.

• Each time you press ▲ or ▼, the item changes on the TV screen as follows.

  - "GAMMA"
    Controls the brightness of neutral tints while maintaining the brightness of dark and light portions. (Selectable options: "LOW", "MID" and "HIGH")

  - "BRIGHTNESS"
    Controls the brightness of the display. (Setting range: –8 to +8)

  - "CONTRAST"
    Controls the contrast of the display. (Setting range: –12 to +12)

  - "SATURATION"
    Controls the saturation of the display. (Setting range: –16 to +16)

  - "TINT"
    Controls the tint of the display. (Setting range: –16 to +16)

  - "SHARPNESS"
    Controls the sharpness of the display. (Selectable options: "LOW" and "HIGH")

4 Press [ENTER].

TV screen (example)

```
              ▲
GAMMA       [ MID ]
              ▼
```

5 Press ▲ or ▼ to change the value.

6 Press [ENTER].

• To adjust other items, go back to step 3.

7 Press [VFP].

NOTE
• This function does not work when the [HDMI] terminal on the main unit is connected to a TV.
• If no operation is made for several seconds during the procedure, the settings made so far are automatically stored.
• "VFP" stands for "Video Fine Processor".

Using the status bar and the menu bar

DVD VIDEO VCD SVCD CD ASF DivX MPEG1 MPEG2

■When a disc/file is played back

1 Press [ON SCREEN] twice.

TV screen for a DVD VIDEO (example)

— Status bar

| DVD-VIDEO | Dolby D 3/2.1ch | TITLE 33 | CHAP 33 | TOTAL 1:25:58 ▶ |
| Time | ⏏OFF | 🕐➡ | CHAP.➡ | ⏺ 1/3 | 💬 1/5 | 📷 1/3 |
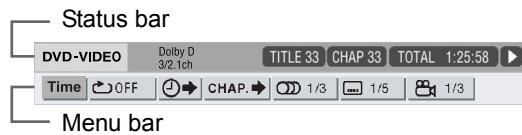
— Menu bar

2 Press ◄ or ► to select an item you want to operate, and then press [ENTER].

• To turn off the menu bar, press [ON SCREEN].

Information displayed on the status bar

DVD VIDEO

Current title number

Playback status*

| DVD-VIDEO | Dolby D 3/2.1ch | TITLE 33 | CHAP 33 | TOTAL 1:25:58 ▶ |

Sound signal type   Time

Current chapter number
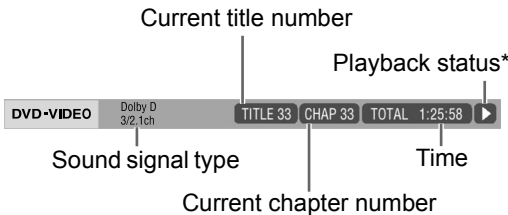
VCD/SVCD/CD/ASF/DivX/MPEG1/MPEG2
(the example below is for a CD)

| CD | RANDOM | TRACK 33 | TIME 25:58 ▶ |

Playback mode status

Playback status*

Time

(VCD/SVCD/CD)
Current track number
(ASF/DivX/MPEG1/MPEG2 file)
Repeat mode status
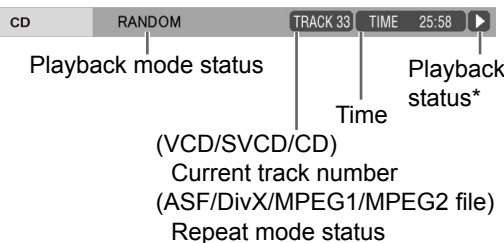
NOTE

* The playback status has the same meaning of the mark on the on-screen guide. (Refer to page 27.)

Function list

To select the settings for those items listed below without a description of their operation, press ▲ or ▼ to select an item and press [ENTER].

Time Time display selection	Changes the time information in the display window and the status bar. Each time [ENTER] is pressed, the display changes on the menu bar. **DVD VIDEO (operating during playback)** TOTAL : Elapsed playback time of the current title. T.REM : Remaining time of the current title. Time : Elapsed playback time of the current chapter. REM : Remaining time of the current chapter. **CD (operating during playback)/ VCD/SVCD** Time : Elapsed playback time of the current track. REM : Remaining time of the current track. TOTAL : Elapsed playback time of the disc. T.REM : Remaining time of the disc.
⏏OFF Repeat mode	Refer to page 34. (For A-B repeat playback, refer to page 37.)
🕐➡ Time search	Refer to page 37.
CHAP.➡ Chapter search	**DVD VIDEO (chapter search)** Selects a chapter. Press the number buttons to enter the chapter number and press [ENTER]. **Examples:** 5 : [5] 24 : [≧10] → [2] → [4]
⏺ 1/3 Audio language	**DVD VIDEO/VCD/SVCD/DivX** Refer to page 31.
💬 1/ 5 Subtitle language	**DVD VIDEO/SVCD/DivX** Refer to page 31.
📷 1/3 View angle	**DVD VIDEO** Refer to page 31.

Using the status bar and the menu bar (continued)

For the locations of the remote control buttons, refer to page 31.

Playing back a specified part repeatedly (A-B repeat playback)

DVD **C D** **VCD** —(PBC off)
VIDEO **SVCD**

You can play back the desired part repeatedly by specifying a start point (A) and an end point (B).

■When a disc is played back

1 Press [ON SCREEN] twice.

• The menu bar appears. (Refer to page 36.)

2 Press ◄ or ► to select ↻ OFF .

3 Press [ENTER].

4 Press ▲ or ▼ to select "A-B".

| DVD-VIDEO | Dolby D 3/2.1ch | TITLE 33 | CHAP 33 | TOTAL 1:25:58 | ► |

| Time | ↻ OFF | ⏱► | CHAP.► | ◯◯ 1/3 | ▭ 1/5 | 🎥 1/3 |

A-B

5 Press [ENTER] at the start point of the part to be repeated (specifying point A).

• The icon on the menu bar is ↻ A- .

6 Press [ENTER] at the end point of the part to be repeated (specifying point B).

• The icon on the menu bar is ↻ A-B .

• The "↻" and "A-B" indicators light up in the display window and the part between points A and B is played back repeatedly.

Canceling A-B repeat playback

There are 2 methods.

• **Press ■.**

• **Select ↻ OFF . (Select ↻ A-B and press [ENTER] twice.)**

NOTE
• You can use A-B repeat playback only within the same title or track.
• You cannot use A-B repeat playback during program playback, random playback or repeat playback.

Designating the time (Time search)

DVD **C D** **VCD** —(PBC off)
VIDEO **SVCD**

■When a disc is played back

1 Press [ON SCREEN] twice.

• The menu bar appears. (Refer to page 36.)

2 Press ◄ or ► to select ⏱► .

3 Press [ENTER].

| DVD-VIDEO | Dolby D 3/2.1ch | TITLE 33 | CHAP 33 | TOTAL 1:25:58 | ► |

| Time | ↻ OFF | ⏱► | CHAP.► | ◯◯ 1/3 | ▭ 1/5 | 🎥 1/3 |

TIME _ _ : _ _ : _ _

4 Enter the time using the number buttons.

Example:
When you want to play back a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the number buttons in the order of [0], [2], [3], [4] and [5].

• You can skip entering the minute and second settings.
• If the incorrect value is entered, press ◄ to delete the values and enter values again.

5 Press [ENTER].

• To turn off the menu bar, press [ON SCREEN].

NOTE
• This function does not work during program playback or random playback.
• For a CD, you can use this function any time.
• Time search for a DVD VIDEO is from the beginning of the title.
• Time search for a VCD, an SVCD and a CD is as follows:
  - When the disc is stopped, time search is from the beginning of the disc.
  - When the disc is played back, time search is within the track currently being played back.

Changing the initial settings with the preference screen

DVD VIDEO | VCD SVCD | CD | MP3 WMA | WAV | JPEG | ASF

DivX | MPEG1 MPEG2

You can change the initial settings of the main unit with the preference screen according to the environment where the main unit is used.

Remote control mode selector

▲/▼/◄/►/ ENTER

SET UP
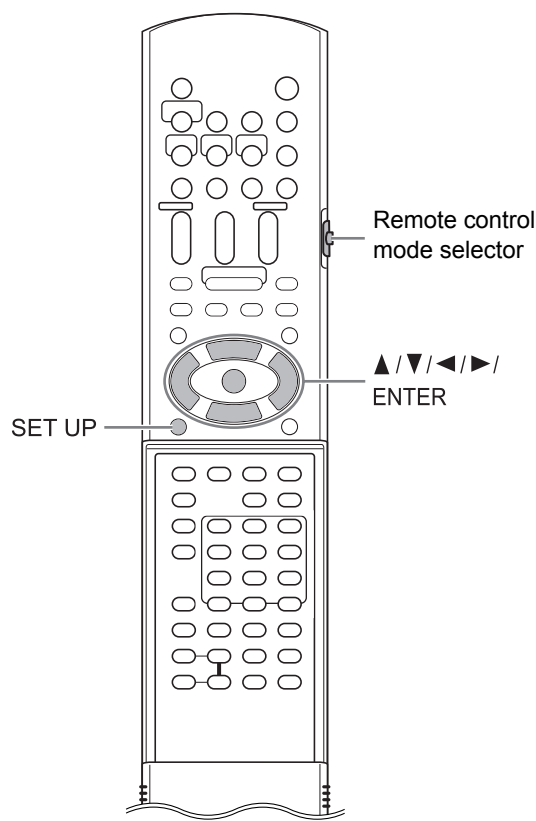
■ CAUTION

• Slide the remote control mode selector to [AUDIO].

AUDIO
TV
VCR/DBS
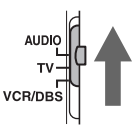
NOTE

• The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

Basic operations

■ When a disc/file is stopped or no disc is loaded ("NO DISC" is displayed in the display window)

1 Press [SET UP].

• The preference screen appears on the TV screen.

Example:

LANGUAGE	
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
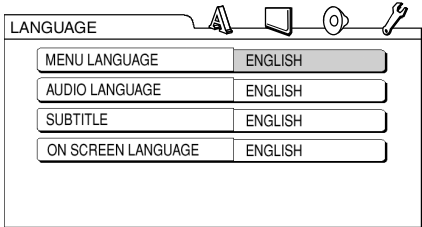
2 Use ▲, ▼, ◄, ► and [ENTER] to control the preference screen.

• Proceed with operations by following the description on the TV screen.

🅐 LANGUAGE

Items	Contents
MENU LANGUAGE	Select the language for the DVD VIDEO menu screen.
AUDIO LANGUAGE	Select the audio language for the DVD VIDEO.
SUBTITLE	Select the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Select the language displayed on the preference screen.

NOTE

• If the selected language is not recorded on the disc/file, the optimum language set for the disc/file is displayed.
• For a language code such as "AA", refer to the "Language codes" on page 41.

Convenient functions of disc/file playback

⬜ PICTURE

Items	Contents (▢ : initial setting)
MONITOR TYPE	Select the display method suitable for your TV. **4 : 3 PS (Pan Scan) :** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the left and right edges of the picture are not shown on the screen. (If the disc/file is not compatible with Pan Scan, the picture is displayed at the Letterbox ratio.) **4 : 3 LB (Letterbox) :** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, black bars appear on the top and bottom of the screen. **16 : 9 :** For an ordinary wide TV.
PICTURE SOURCE	Select the item suitable to the video source. **AUTO :** The video source type (a video or film) is automatically selected. **FILM :** To view a film or video recorded with the progressive scan method. **VIDEO (ACTIVE) :** Suitable for playing back a video with a lot of action. **VIDEO (NORMAL) :** Suitable for playing back a video without a lot of action.

Items	Contents (▢ : initial setting)
SCREEN SAVER	You can turn **ON** or **OFF** the screen saver. The screen saver activates when there is no operation made for approximately 5 minutes since a still picture was last displayed. **NOTE** • This function does not work when this system outputs the video signal via the [HDMI] terminal.
FILE TYPE	When files of different types are recorded on a disc or connected USB mass storage class device, select the file type before playback. **AUDIO :** For MP3/WMA/WAV files. **STILL PICTURE :** For JPEG files. **VIDEO :** For ASF/DivX/MPEG1/MPEG2 files.
HDMI DVI COLOR	You can select the settings for the picture appearance (image quality, color intensity and black fading) on the TV connected to the [HDMI] terminal. **STANDARD :** For normal usage. **ENHANCE :** The main unit automatically adjusts the picture appearance.
HDMI OUT	You can select the video signal type output from the [HDMI] terminal. **AUTO :** For normal usage. The main unit automatically selects the output video signal type according to the TV connected to the [HDMI] terminal. **RGB :** Select this item if no picture appears on the TV with the "AUTO" setting. The output video signal type is set to the RGB signal.

◎ AUDIO

Items	Contents (▢ : initial setting)
DIGITAL AUDIO OUTPUT	Select the output signal type suitable to the device connected to the [LINE-DIGITAL OUT] terminal. Refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal" on page 41. **PCM ONLY :** Device corresponding only to linear PCM. **DOLBY DIGITAL/PCM :** Dolby Digital decoder or device having the same function. **STREAM/PCM :** DTS/Dolby Digital decoder or device having the same function.
DOWN MIX	Select the signal suitable to the device connected to the [LINE-DIGITAL OUT] terminal. Set "DOWN MIX" only when "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY". **DOLBY SURROUND :** Dolby Pro Logic decoder-built-in device. **STEREO :** Ordinary audio device.
D (Dynamic). RANGE COMPRESSION	To correct the difference between high volume and low volume when playing back with low volume (only for a DVD recorded with Dolby Digital). **WIDE RANGE :** For enjoying the original full dynamic range of surround sound without effects. **NORMAL :** For normal usage. Surround sound is compressed to a certain level.
HDMI AUDIO OUT	You can select whether or not the audio signal from the [HDMI] terminal is output. **ON :** The audio signal from the [HDMI] is output. **OFF :** The audio signal from the [HDMI] is not output. **NOTE** • Depending on the connected TV, when "HDMI AUDIO OUT" is set to "ON", only PCM signals can be output via an HDMI cable.

⚙ OTHERS

Items	Contents (▢ : initial setting)
RESUME	Select **ON** or **OFF**. (Refer to page 28.)
ON SCREEN GUIDE	Select **ON** or **OFF**. (Refer to page 27.)
DivX REGISTRATION	The main unit has its own registration code. You can confirm the registration code, when necessary. Once you have played back a disc/file on which the registration code is recorded, the registration code of the main unit is overwritten for copyright protection.
NETWORK SETUP	For DD-8/DD-3 users: Refer to the separate volume of the operation manual for the network function. For DD-1 users: This item is not available.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

Playback disc/file	DIGITAL AUDIO OUTPUT preference		
	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
48 kHz, 16/20/24 bits linear PCM DVD VIDEO / 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bits stereo linear PCM		
DTS DVD VIDEO	DTS bit stream	48 kHz, 16 bits stereo linear PCM	
DOLBY DIGITAL DVD VIDEO	DOLBY DIGITAL bit stream		48 kHz, 16 bits stereo linear PCM
CD/VCD/SVCD	44.1 kHz, 16 bits stereo linear PCM / 48 kHz, 16 bits linear PCM		
DTS CD	DTS bit stream	44.1 kHz, 16 bits linear PCM	
MP3/WMA/DivX file	32/44.1/48 kHz, 16 bits linear PCM		

NOTE
• Among DVD VIDEOs without copyright protection, there may be some DVD VIDEOs that output a 20- or 24- bit signal through the [LINE-DIGITAL OUT] terminal.

Language codes

Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	GD	Scots Gaelic	MI	Maori	SL	Slovenian
AB	Abkhazian	GL	Galician	MK	Macedonian	SM	Samoan
AF	Afrikaans	GN	Guarani	ML	Malayalam	SN	Shona
AM	Ameharic	GU	Gujarati	MN	Mongolian	SO	Somali
AR	Arabic	HA	Hausa	MO	Moldavian	SQ	Albanian
AS	Assamese	HI	Hindi	MR	Marathi	SR	Serbian
AY	Aymara	HR	Croatian	MS	Malay (MAY)	SS	Siswati
AZ	Azerbaijani	HU	Hungarian	MT	Maltese	ST	Sesotho
BA	Bashkir	HY	Armenian	MY	Burmese	SU	Sundanese
BE	Byelorussian	IA	Interlingua	NA	Nauru	SV	Swedish
BG	Bulgarian	IE	Interlingue	NE	Nepali	SW	Swahili
BH	Bihari	IK	Inupiak	NL	Dutch	TA	Tamil
BI	Bislama	IN	Indonesian	NO	Norwegian	TE	Telugu
BN	Bengali, Bangla	IS	Icelandic	OC	Occitan	TG	Tajik
BO	Tibetan	IW	Hebrew	OM	(Afan) Oromo	TH	Thai
BR	Breton	JI	Yiddish	OR	Oriya	TI	Tigrinya
CA	Catalan	JW	Javanese	PA	Panjabi	TK	Turkmen
CO	Corsican	KA	Georgian	PL	Polish	TL	Tagalog
CS	Czech	KK	Kazakh	PS	Pashto, Pushto	TN	Setswana
CY	Welsh	KL	Greenlandic	PT	Portuguese	TO	Tonga
DA	Danish	KM	Cambodian	QU	Quechua	TR	Turkish
DZ	Bhutani	KN	Kannada	RM	Rhaeto-Romance	TS	Tsonga
EL	Greek	KO	Korean (KOR)	RN	Kirundi	TT	Tatar
EO	Esperanto	KS	Kashmiri	RO	Rumanian	TW	Twi
ET	Estonian	KU	Kurdish	RU	Russian	UK	Ukrainian
EU	Basque	KY	Kirghiz	RW	Kinyarwanda	UR	Urdu
FA	Persian	LA	Latin	SA	Sanskrit	UZ	Uzbek
FI	Finnish	LN	Lingala	SD	Sindhi	VI	Vietnamese
FJ	Fiji	LO	Laothian	SG	Sangho	VO	Volapuk
FO	Faroese	LT	Lithuanian	SH	Serbo-Croatian	WO	Wolof
FY	Frisian	LV	Latvian, Lettish	SI	Singhalese	XH	Xhosa
GA	Irish	MG	Malagasy	SK	Slovak	YO	Yoruba
						ZU	Zulu

Playing back sources from other devices

LINE

ENTER

QP LINK
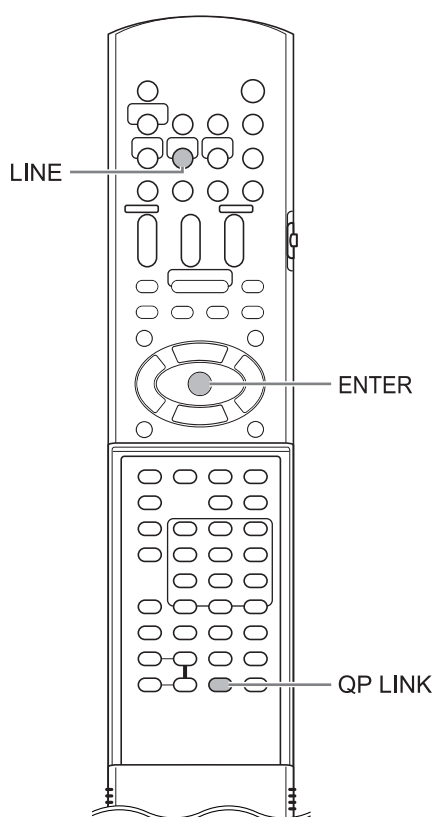
Selecting other devices as the source

1 Press [LINE].

- Each time you press [LINE], the display changes in the display window as follows.

  - "LINE 1" for selecting the device connected to the [LINE IN 1] terminal

  - "LINE 2" for selecting the device connected to the [LINE IN 2] terminals

  - "LINE-DIGITAL" for selecting the digital audio device connected to the [LINE-DIGITAL IN] terminal

- You can also select the connected device as the source by repeatedly pressing [SOURCE] on the main unit.

2 Start playback on the connected device.

- Refer also to the operation manual for the connected device.

3 Adjust the volume and make other necessary settings.

- Refer to "Basic operations" on page 17.

Selecting the signal gain

You can select the gain of the signal from the [LINE IN 1] and [LINE IN 2] terminals.
Use the initial settings for normal operation. If the sound is too small or too loud, change the settings.

1 Press [LINE] repeatedly to select "LINE 1" or "LINE 2" in the display window.

2 Hold down [ENTER].

- Each time you hold down [ENTER], the display changes as follows.

  → "LEVEL 1" : the initial setting for "LINE 2"
  ↓
  "LEVEL 2"
  ↓
  "LEVEL 3" : the initial setting for "LINE 1"
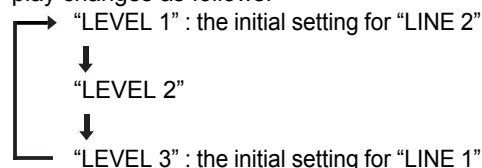
- The signal gain increases in the order of "LEVEL 1", "LEVEL 2" and "LEVEL 3".

NOTE
- You can select the signal gain respectively for "LINE 1" and "LINE 2".

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QP LINK

When you start analog playback of a portable digital audio player connected to the [LINE IN 1] terminal while the main unit is off or another source is selected, the main unit automatically turns on and the source changes to the connected portable digital audio player. This function is called the quick portable link function (QP LINK).

Activating QP LINK

Press [QP LINK] repeatedly to select "QP ON" in the display window.
• To deactivate QP LINK, select "QP OFF".
• You can set QP LINK when the main unit is both on and off.

```
QP ON :ACT
          *1
```

Using QP LINK

■When "QP ON" is selected

1   Connect a portable digital audio player to the [LINE IN 1] terminal using an audio cable.

Main unit (front view)

Audio cable (not supplied)

Output   Portable digital audio player or other audio device
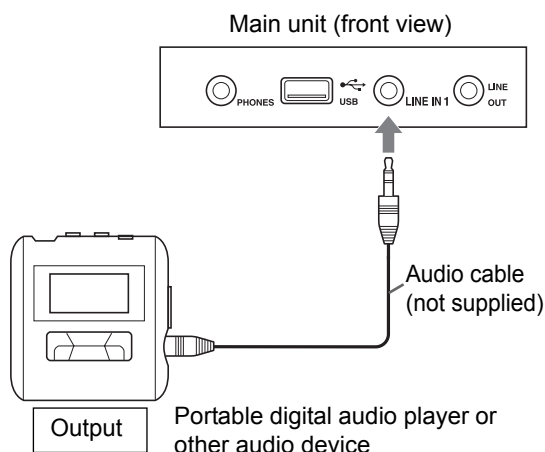
2   Start playback on the portable digital audio player.

• If the main unit is off, the main unit automatically turns on.
• The source from the portable digital audio player is automatically selected, "LINE 1" is displayed and sound is produced.

```
LINE 1
```

NOTE
*1   When "QP ON" is displayed, ":ACT" or ":NO ACT" is also displayed to indicate the status of QP LINK. (According to the status of the main unit, ":ACT" and ":NO ACT" changes automatically.)
  - "QP ON :ACT" is displayed when QP LINK is activated and available.
  - "QP ON :NO ACT" is displayed when QP LINK is activated but unavailable.
  Pressing [QP LINK] once can be used to confirm the status of QP LINK.

Selecting the sensitivity for QP LINK

If the sensitivity for the input audio signal is too high, QP LINK may be activated even when the portable digital audio player is not played back.
At this time, you can select the lower sensitivity.

Hold down [QP LINK].
• Each time you hold down [QP LINK], the display changes in the display window as follows.
  - "QP: LEVEL1" for normal usage (the initial setting)
  - "QP: LEVEL2" for lower sensitivity

```
QP: LEVEL1
```

Operating other devices using the remote control

You can operate your TV, video cassette recorder (VCR) and digital broadcast satellite (DBS) using the remote control of this system.

TV/VIDEO

TV CHANNEL
+ / −

TV VOL
+ / −

◀◀

DVD/CD ▶

■

VCR/DBS ⏻/I

TV ⏻/I

DBS

VCR
Remote control
mode selector

▶▶

❚❚

ENTER

Number
buttons/
TV RETURN/
100+
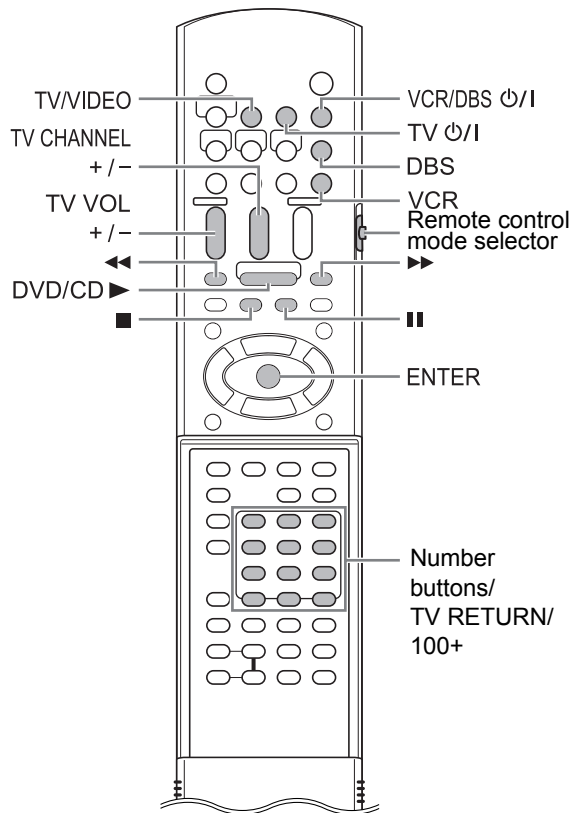
Operating a TV using the remote control

Setting the manufacturer code

1 Slide the remote control mode selector to [TV].

2 Hold down [TV ⏻/I].

AUDIO
TV
VCR/DBS

• Hold down [TV ⏻/I] until you finish step 4.

3 Press [ENTER] and release.

4 Press number buttons to enter the manufacturer code.
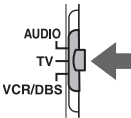
Examples:
For a Hitachi TV: Press [1], then [0].
For a Toshiba TV: Press [0], then [8].
When the manufacturer of your TV has 2 or more codes, select the manufacturer codes in turn and find the one that operates the TV and the remote control properly.

Manufacturer	Code
JVC	01
Hitachi	10
Magnavox	02
Mitsubishi	03
Panasonic	04, 11
Philips	15
RCA	05
Samsung	12, 18, 19, 20, 21
Sanyo	13, 14
Sharp	06, 16, 17
Sony	07
Toshiba	08
Zenith	09

5 Release [TV ⏻/I].

NOTE
• Manufacturer codes are subject to change without notice. You may not be able to operate the TV produced by the manufacturer.
• After replacing the batteries of the remote control, set the manufacturer code again.

Using the remote control for the TV operation

Operate the remote control by pointing it at the TV.
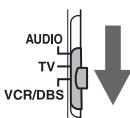
Remote control button	Usage	
[TV ⏻/I]	Turns on/off the TV.	
[TV/VIDEO]	Changes between the TV and video input.	
[TV CHANNEL +/–]	Changes channels.	
[TV VOL +/–]	Adjusts volume.	
Number buttons (1-9, 0, 100+)	Slide the remote control mode selector to [TV] in advance.	Selects the channels.
[TV RETURN]		Changes between the previously selected channel and the current channel.

NOTE
• When the remote control mode selector is slid to [TV], some buttons may not work.

Operating a VCR/DBS using the remote control

Setting the manufacturer code

1 Slide the remote control mode selector to [VCR/DBS].

2 Press [VCR] or [DBS].

3 Hold down [VCR/DBS ⏻/I].

• Hold down [VCR/DBS ⏻/I] until you finish step 5.

4 Press [ENTER] and release.

5 Press number buttons to enter the manufacturer code.

Manufacturer codes for VCRs
Examples:
For a Hitachi VCR: Press [0], then [4].
For a Mitsubishi VCR: Press [1], then [3].
When the manufacturer of your VCR has 2 or more codes, select the manufacturer codes in turn and find the one that operates the VCR and the remote control properly.

Manufacturer	Code
JVC	01, 02, 03
Emerson	11, 26
Fisher	29
Funai	10, 14, 15, 16
Gold Star	12
Hitachi	04
Mitsubishi	13
NEC	25
Panasonic	07, 17
Philips	09
RCA	05, 06
Samsung	24
Sanyo	21, 22, 23
Sharp	27, 28
Shintom	30
Sony	18, 19, 20
Zenith	08

Manufacturer codes for DBSs
Examples:
For an Echostar DBS: Press [2], then [1].
For a Sony DBS: Press [2], then [0].
When the manufacturer of your DBS has 2 or more codes, select the manufacturer codes in turn and find the one that operates the DBS and the remote control properly.

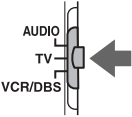| Manufacturer	Code
G. I.	01, 02, 03, 04, 05, 06, 07, 08
Echostar	21
Hamlin	15, 16, 17, 18
Jerrold	01, 02, 03, 04, 05, 06, 07, 08
Pioneer	13, 14
RCA	19
Scientific Atlanta	09, 10
Sony	20
Zenith	11, 12

6 Release [VCR/DBS ⏻/I].

NOTE
- Manufacturer codes are subject to change without notice. You may not be able to operate the VCR/DBS produced by the manufacturer.
- After replacing the batteries of the remote control, set the manufacturer code again.

Using the remote control for the VCR/DBS operation

Before the VCR/DBS operation, select the remote control mode for the VCR/DBS.

1 Slide the remote control mode selector to [VCR/ DBS].
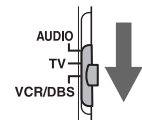
2 Press [VCR] or [DBS].

Operate the remote control by pointing it at the VCR/DBS.

Remote control button assigned for the VCR operation

Remote control button	Usage
[VCR/DBS ⏻/I]	Turns on/off the VCR.
[VCR]	Selects the VCR input.
[TV CHANNEL +/–]	Changes channels.
Number buttons (1-10, 0, ≧10)	Selects the channels.
[DVD/CD ►]	Starts playback.
■	Stops playback.
❚❚	Pauses playback.
►►	Fast-forwards the tape.
◄◄	Fast-rewinds the tape.

Remote control button assigned for the DBS operation

Remote control button	Usage
[VCR/DBS ⏻/I]	Turns on/off the DBS.
[DBS]	Selects the DBS input.
[TV CHANNEL +/–]	Changes channels.
Number buttons (1-9, 0, ≧10)	Selects the channels.

NOTE
- When the remote control mode selector is slid to [VCR/DBS], some buttons may not work.

Operating other devices using the remote control

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Notes on operation

Suitable locations for the main unit

To minimize the need for servicing and maintain the high quality of this system, do not place the main unit in the following locations:
- In a position subject to high humidity or considerable dust
- On an uneven or unstable surface
- Near a heat source
- Near a computer, fluorescent light or other electric appliance
- In a small room with insufficient ventilation
- In a position exposed to direct sunlight
- In a position exposed to excessive cold
- In a position exposed to strong vibration
- Near a TV, other amplifier, or tuner
- Near a magnetic source

■ CAUTION
- The operating temperature of this system is 5°C to 35°C. Use in temperatures outside this range may cause a malfunction or damage the system.

Condensation

Under the following conditions, you may not be able to operate this system properly due to condensation formed on the lens of the main unit:
- When you have just started an air conditioner to warm your room
- When you have placed the main unit at an area with high humidity
- When you have moved the main unit from a cold place to a warm place

When condensation forms, leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.

Cleaning the main unit

When the operation panel becomes dirty, dust it with a soft dry cloth. When the operation panel is very dirty, wipe it with a cloth dampened with a small amount of a neutral detergent, and then wipe it with a soft dry cloth.

■ CAUTION
- Do not wipe the operation panel with thinners, benzenes or other chemical agents. Do not spray insecticides onto the operation panel. These may cause discoloration and damage to the surface.

License and trademark

- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
- DVD logo is a registered trademark of DVD Format/Logo Licensing Corporation.
- Official DivX® Certified product
- Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files
- DivX, DivX certified, and associated logos are trademarks of DivX, Inc. and are used under license.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDCP is the abbreviation of "High-Bandwidth Digital Content Protection", and is the high-reliable copy control technology licensed by Digital Content Protection, LLC.

Notes on handling

Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.

Note about copyright laws
Check the copyright laws in your country before recording from CDs. Recording of copyrighted material may infringe copyright laws.

Safety Precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heating equipment.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Do not block the vents
Blocking the vents may damage the system.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

Notes on discs/files

Playable disc/file types

Playable discs [*1]	DVD VIDEO, VCD, SVCD, CD, CD-R, CD-RW, DVD-R, DVD-RW, +R, +RW
Playable files recorded on a disc [*1, *2]	MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1, MPEG2
Playable files recorded on a USB mass storage class device [*3]	
Playable files stored on a computer (Only for DD-8 and DD-3)	Refer to the separate volume of the operation manual for the network function.

• Even though listed above, some types may be unplayable.

*1 Discs should be finalized before being played back.

*2 For files recorded on a DVD-R/DVD-RW, the disc should be formatted with UDF Bridge.

*3 This system may not recognize some USB mass storage class devices. This system cannot play back a file whose data volume is more than 2 gigabytes and a file whose data transfer rate is more than 2 Mbps.

It is possible to play back finalized +R/+RW (DVD Video Format only) discs. "DVD" lights on the front display panel when a +R/+RW disc is loaded.

Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

Only sounds can be played back from the following discs:

MIX-MODE CD	CD-G
CD-EXTRA	CD TEXT

This system accommodates the NTSC and PAL systems.

Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This system can play back a DVD VIDEO whose Region Code number includes the system's Region Code, which is indicated on the rear panel.

Examples:

If a DVD VIDEO with an improper region code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

• **On some DVD VIDEOs, VCDs, SVCDs or DivX files, their actual operation may be different from what is explained in this manual. This is due to the disc/file programming and disc/file structure, not a malfunction of this system.**

Unplayable discs

• The following discs cannot be played back:
• DVD-ROM (except for MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 format), DVD-RAM, CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
• Playing back these discs will generate noise and damage the speakers.
• Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.
• JVC does not guarantee the operation and sound quality of discs not authorized by CD-DA, which is a CD specification.
  Before playback, confirm that the disc complies with this CD specification by checking the marks and reading notes printed on the package.

Playable MP3/WMA/WAV/JPEG/ASF/DivX/MPEG1/MPEG2 discs/files

• CDs recorded in the ISO 9660 format are playable (except CDs recorded in the "packet write" format (UDF format)).
• CDs recorded in the multi-session format are also playable.
• Files with an extension of ".mp3", ".wma", ".wav", ".jpg", ".jpeg", ".asf", ".divx", ".div", ".avi", ".mpg" or ".mpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.
• This system cannot play back DVDs recorded in multi-session or multi-border format.

Notes on MP3/WMA/WAV/JPEG/ASF discs/files

• A disc may not be played back, or reading it may take a long time depending on its recording conditions or properties.
• The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
• If a character other than single byte English characters is used in the file name of an MP3/WMA/JPEG/ASF file, the track/file name will not be displayed correctly.
• The order of tracks/groups displayed on the MP3/WMA menu screen, and the order of files/groups displayed on the JPEG menu screen may be different from that of files/folders displayed on a computer monitor screen.
• In the case of MP3/WMA discs, since groups/tracks are played back in alphabetical order, a commercially available MP3/WMA disc may be played back in an order different from that indicated on the label attached to the disc.

• Playing back an MP3/WMA file including a still image may take a long time. The elapsed time is not displayed until playing back starts. If playing back starts, the elapsed time may not be displayed correctly.
• For an MP3/WMA file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
• This system is not compatible with MP3i or MP3PRO.
• This system can play back a baseline JPEG file, excluding monochromatic JPEG files.
• This system can play back JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
• If data has been processed, edited and restored with computer image editing software, the data may not be displayed.
• This system cannot play back animations such as MOTION JPEG, still pictures (TIFF etc.) other than JPEG, or image data with sound.
• The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.
• The system supports ASF files recorded with the maximum bit rate of 384 kbps and an audio coder decoder of G.726.
• For a WAV file, a disc with a sampling frequency of 44.1 kHz and a transmission rate of 16 bits is recommended.

Notes on DVD-R/DVD-RW

• This system does not support a disc recorded in multi-border format.
• This system does not support a disc recorded in DVD VR format.

Notes on DivX discs/files

• The system supports DivX 5.x, 4.x and 3.11.
• The system supports DivX files with a resolution of 720 x 480 pixels or less (30 fps) and 720 x 576 pixels or less (25 fps).
• Audio stream should conform to MPEG1 Audio Layer-2 or MPEG Audio Layer-3 (MP3).
• The system does not support GMC (Global Motion Compression).
• Files encoded in the interlaced scanning mode may not be played back correctly.
• Playing back a DivX file may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.

Notes on MPEG1/MPEG2 discs/ files

• The stream structure of MPEG1/MPEG2 discs and files should conform to MPEG system/program stream.
• 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
• This system also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
• The profile and level should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
• Audio streams should conform to MPEG1 Audio Layer-2, MPEG2 Audio Layer-2 or Dolby Digital (MPEG2 only).

Caution for DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Notes on files recorded on a connected USB mass storage class device

• JVC bears no responsibility for any loss of data on the USB mass storage class device while using this system.
• This system is compatible with USB 2.0 Full-Speed.
• Tracks coded or encrypted using a special method cannot be played on the system.
• Some portable audio players are not compatible with the system.
• This system may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).

Data hierarchy

DVD VIDEO
A DVD VIDEO consists of "titles" and each title may be divided into "chapters".

Title 1			Title 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2
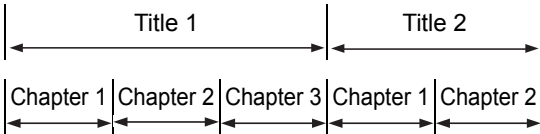
VCD/SVCD/CD
A VCD/SVCD/CD consists of "tracks".
In general, each track has its own track number.
(On some discs, each track may also be further divided by indexes.)

Track 1	Track 2	Track 3	Track 4	Track 5

MP3/WMA/WAV/JPEG/ASF/DivX/MPEG1/ MPEG2 files
Audio, still pictures and video are recorded as tracks/files on a disc or a USB mass storage class device. Tracks/files are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.
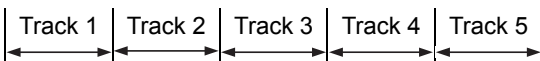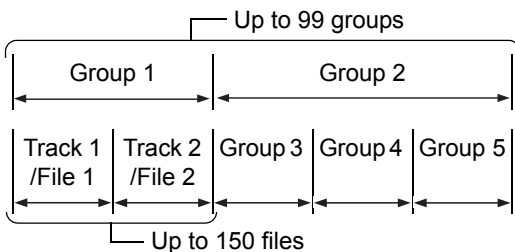This system simplifies the hierarchical construction of files and manages folders by "groups".

Up to 99 groups

Group 1		Group 2		
Track 1 /File 1	Track 2 /File 2	Group 3	Group 4	Group 5

Up to 150 files

This system can recognize up to 4 000 tracks/files on a disc. Also, the system can recognize up to 150 tracks/files per group and up to 99 groups on a disc. Since the system ignores the tracks/files with numbers exceeding 150 and the groups with numbers exceeding 99, these cannot be played back. If there are any type of files other than MP3/WMA/ WAV/JPEG/ASF/DivX/MPEG1/MPEG2 files on a disc, those files are also counted in the total file number.

Handling discs

- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.
- Do not bend the disc.

Label sticker

Sticker

Paste

Cleaning discs

Signal surface

OK
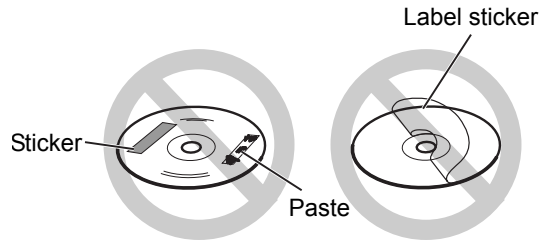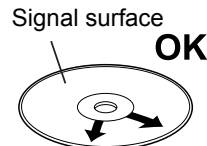
Wipe the disc from the center outward with a soft cloth.
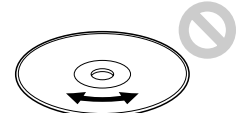
Scratches concentrated on a certain part cause sound dropout.

- Be sure not to use thinners, benzenes, cleaners for analog records, or other chemical agents.

Troubleshooting

Reference

Problem	Possible cause	Possible solution	Reference page
No sound/video is produced.	Improper connection.	Connect all cables properly.	5
	Headphones are connected.	Disconnect the headphone plug.	3
No sound/video is produced via the [HDMI] terminal. (Only for DD-8/DD-3)	A disc/file recorded in a format incompatible with the main unit/TV is played back.	Confirm the playable disc/file types.	49
	The connected TV is not compatible with HDCP.	Connect a TV compatible with HDCP.	12, 13
	The main unit fails to recognize the TV connected to the [HDMI] terminal.	Disconnect the HDMI cable and connect it again.	12, 13
	An HDMI cable longer than 5 m (15 feet) is used.	Use an HDMI cable of 5 m (15 feet) or shorter to assure stable operation and picture quality.	–
Disc playback does not start.	The disc is upside down.	Place the disc on the disc tray with the printed surface facing up.	23
	Moisture has condensed on the lens.	Leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.	47
A certain point cannot be played back properly.	The disc is scratched or dirty.	Clean or replace the disc.	52
The picture is distorted when the TV is connected to the [HDMI] terminal. (Only for DD-8/DD-3)	The proportion of the picture is not appropriate.	Connect the TV to the [VIDEO] terminal or [S-VIDEO] terminal, and select the video signal type and the monitor out type.	12-14
A radio broadcast cannot be received.	No antenna is connected.	Connect an antenna.	5
A whirring noise is produced.	The main unit is located close to a TV, computer, or other electric appliance.	Place the main unit away from a TV, computer, or other electric appliance.	48
The disc tray does not eject.	If "LOCKED" appears in the display window, disc ejection has been locked.	Cancel the disc ejection lock.	20
You cannot operate the remote control.	The remote control batteries are running low.	Replace the batteries with new batteries.	4
You cannot operate the main unit using the remote control.	The remote control mode selector on the remote control is slid to [TV] or [VCR/DBS].	Slide the remote control mode selector to [AUDIO].	17
MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1 or MPEG2 files cannot be played back.	The loaded disc may include files of different types (MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1 or MPEG2).	Select "FILE TYPE". You can play back only the files of the types selected with "FILE TYPE". If the main unit has read the file before you make the "FILE TYPE" setting, perform either of the following after setting "FILE TYPE" to the desired file type. • For playing back files on the disc, reload the disc. • For playing back files on the USB mass storage class device, disconnect the USB mass storage class device and then connect it again.	39
Playback starts suddenly.	QP LINK may be working. This is not a malfunction.	Select "QP OFF".	43

If this system does not work properly despite the above "Possible solution"
Many functions of this system are controlled by microprocessors that can be reset by recycling the power supply. If pressing any button does not result in the normal action, disconnect the power cable from the outlet, wait for a while, and connect the power cable again.

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Specifications

Main unit (CA-DD8/CA-DD3/CA-DD1)

Tuner
FM frequency: 87.50 MHz - 108.00 MHz
AM frequency: 531 kHz - 1 710 kHz
(9 kHz spacing)
530 kHz - 1 710 kHz
(10 kHz spacing)

Terminal (front of the main unit)
- Audio output headphone terminal x 1
  Impedance: 16 Ω to 1 kΩ
- USB digital input terminal x 1
- Analog input terminal x 1
  Stereo mini jack
- Analog output terminal x 1
  Stereo mini jack

Terminal (rear of the main unit)
- Optical digital input terminal x 1
  –23 dBm to –15 dBm
- Optical digital output terminal x 1
  –23 dBm to –15 dBm
- System terminal x 1
- Component video output terminals (3) x 1
  Y: 1.0 Vp-p, sync negative, 75 Ω terminated
  P_B: 0.7 Vp-p, 75 Ω terminated
  P_R: 0.7 Vp-p, 75 Ω terminated
- Audio input terminals (2) x 1
  500 mV/47 kΩ
- Composite video output terminal x 1
  1.0 Vp-p, 75 Ω terminated
- S-video output terminal x 1
  Y: 1.0 Vp-p, 75 Ω terminated
  C (For the NTSC system): 0.286 Vp-p,
  75 Ω terminated
  C (For the PAL system): 0.3 Vp-p,
  75 Ω terminated
- AM antenna terminal x 1
- FM antenna terminal x 1
- Ethernet terminal x 1 (not available for DD-1)
- HDMI monitor output terminal x 1 (not available for DD-1)

USB
Compatible with USB 2.0 Full-Speed
Compatible device: Mass storage class device
Compatible file system: FAT16, FAT32
Bus power supply: Max. 500 mA

General
Power source: AC 110 - 240 V ∿,
50 Hz/60 Hz
Power consumption (in operation):25 W
Power consumption (on standby):0.5 W
Dimensions (W x H x D):445 mm x 55 mm x 286.4 mm
(including projecting parts)
Weight: 3.5 kg (CA-DD8)
3.0 kg (CA-DD3/CA-DD1)

Subwoofer for DD-8 (SP-PWDD8)

Type: Bass reflex type
Magnetically shielded type
Amplifier:
- Subwoofer: 120 W at 4 Ω (110 Hz, THD 10%)
- Left/right speaker: 25 W x 2 at 3 Ω (1 kHz, THD 10%)
- Center surround speaker:
  25 W x 2 at 3 Ω (1 kHz, THD 10%)

Speaker:
- 16 cm cone
- Power handling capacity:120 W
- Impedance: 4 Ω
- Frequency range: 30 Hz - 230 Hz
- Sound pressure level:72 dB/W•m
General:
- Power source: AC 110 V/127 V/220 - 240 V ∿,
  50 Hz/60 Hz
- Power consumption:120 W
- Dimensions (W x H x D):242 mm x 364 mm x 363 mm
- Weight: 12.6 kg

Subwoofer for DD-3 (SP-PWDD3)

Type: Bass reflex type
Amplifier:
- Subwoofer: 120 W at 4 Ω (110 Hz, THD 10%)
- Left/right speaker: 25 W x 2 at 3 Ω (1 kHz, THD 10%)
- Center surround speaker:
  25 W x 2 at 3 Ω (1 kHz, THD 10%)

Speaker:
- 16 cm cone
- Power handling capacity:120 W
- Impedance: 4 Ω
- Frequency range: 30 Hz - 230 Hz
- Sound pressure level:72 dB/W•m
General:
- Power source: AC 110 V/127 V/220 - 240 V ∿,
  50 Hz/60 Hz
- Power consumption:120 W
- Dimensions (W x H x D):242 mm x 364 mm x 363 mm
- Weight: 12.3 kg

Reference

Subwoofer for DD-1 (SP-PWDD1)

Type: Bass reflex type
Amplifier:
• Subwoofer: 120 W at 4 Ω (110 Hz,
                         THD 10%)
• Left/right speaker: 25 W x 2 at 3 Ω (1 kHz,
                         THD 10%)
• Center surround speaker:
                         25 W x 2 at 3 Ω (1 kHz,
                         THD 10%)
Speaker:
• 16 cm cone
• Power handling capacity:120 W
• Impedance: 4 Ω
• Frequency range: 30 Hz - 230 Hz
• Sound pressure level:72 dB/W•m
General:
• Power source: AC 110 V/127 V/220 - 240 V ∿,
                         50 Hz/60 Hz
• Power consumption:120 W
• Dimensions (W x H x D):221 mm x 361 mm x 340 mm
• Weight: 11.0 kg

Left and right speakers for DD-8 (SP-DD8F)

Type: 2-way 3-speaker bass reflex
                         type
                         Magnetically shielded type
Speaker: 8 cm cone x 2 + 2 cm dome
Power handling capacity:30 W
Impedance: 3 Ω
Frequency range: 60 Hz - 40 kHz
Sound pressure level:81 dB/W•m
Dimensions (W x H x D):289 mm x 1 101 mm x 289 mm
Weight (1 unit):   10.0 kg

Left and right speakers for DD-3 (SP-DD3F)

Type: 2-way acoustic suspension type
                         Magnetically shielded type
Speaker: 9.5 cm x 1 cm direct drive +
                         2 cm dome
Power handling capacity:30 W
Impedance: 3 Ω
Frequency range: 100 Hz - 40 kHz
Sound pressure level:78 dB/W•m
Dimensions (W x H x D):165 mm x 376 mm x 165 mm
                         (including stand)
Weight (1 unit):   1.0 kg (including stand)

Left and right speakers for DD-1 (SP-DD1F)

Type: 2-way bass reflex type
                         Magnetically shielded type
Speaker: 10 cm cone + 4 cm cone
Power handling capacity:30 W
Impedance: 3 Ω
Frequency range: 55 Hz - 40 kHz
Sound pressure level:83 dB/W•m
Dimensions (W x H x D):127 mm x 273 mm x 221 mm
Weight (1 unit):   2.6 kg

Center surround speaker for DD-8/DD-3 (SP-DD8S)

Type: 1-way acoustic suspension type
                            Magnetically shielded type
Speaker: 9.5 cm x 1 cm direct-drive
Power handling capacity:30 W
Impedance: 3 Ω
Frequency range: 120 Hz - 40 kHz
Sound pressure level:79 dB/W•m
Dimensions (W x H x D):344 mm x 61 mm x 76 mm
                            (including stand)
Weight: 0.95 kg (including stand)

Center surround speaker for DD-1 (SP-DD1S)

Type: 1-way acoustic suspension type
                            Magnetically shielded type
Speaker: 9.5 cm x 1 cm direct-drive
Power handling capacity:30 W
Impedance: 3 Ω
Frequency range: 140 Hz - 40 kHz
Sound pressure level:79 dB/W•m
Dimensions (W x H x D):296 mm x 50 mm x 45 mm
Weight: 0.7 kg

Designs and specifications are subject to change without notice.

Supplied accessories

• Remote control x 1
• Battery x 2
• FM antenna x 1
• AM loop antenna x 1
• Left/right speaker cable x 2
• Center surround speaker cable x 1 (Only for DD-8 and DD-3)
• System cable x 1
• Composite video cable x 1
• AC plug adaptor x 2
• M4 x 25-mm screw for the stands of the left and right speakers x 6 (Only for DD-8)
• M4 x 16-mm screw for the stands of the left and right speakers x 6 (Only for DD-3)
• M5 x 14-mm screw for the stands of the center surround speaker x 2 (Only for DD-8 and DD-3)
• Bottom cover of the left and right speakers [for wall installation] x 2 (Only for DD-3)
• Main volume of the operation manual [this manual] x 1
• Separate volume of the operation manual for the network function x 1 (Only for DD-8 and DD-3)
• CD-ROM for the network function setup x 1 (Only for DD-8 and DD-3) [This CD-ROM is for use on a computer. It cannot be played back on this system.]

Mains (AC) Line Instruction

Subwoofer (rear view)

VOLTAGE SELECTOR
220V - 240V
127V
110V
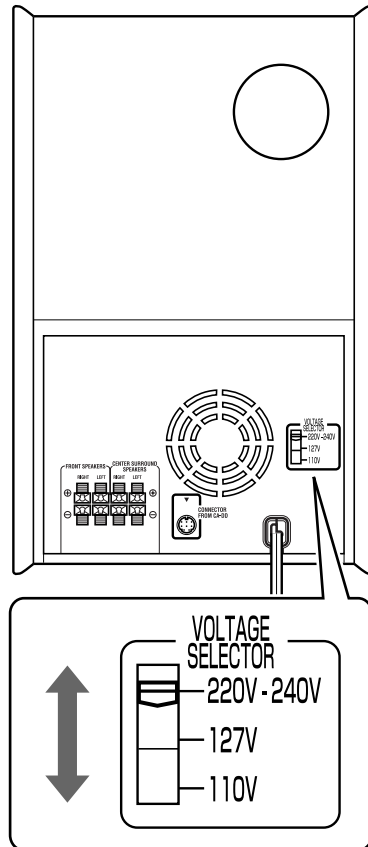
CAUTION for mains (AC) line
BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

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